INCH-POUND

MIL-DTL-83796/7A
18 September 2000
SUPERSEDING
MIL-H-83796/7
1 August 1974

DETAIL SPECIFICATION SHEET

# HOSE ASSEMBLY, RUBBER, LIGHTWEIGHT, MEDIUM PRESSURE, FIELD ATTACHABLE END FITTINGS, FLARELESS TO FLANGE,

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 and the issue of MIL-DTL-83796 listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation.

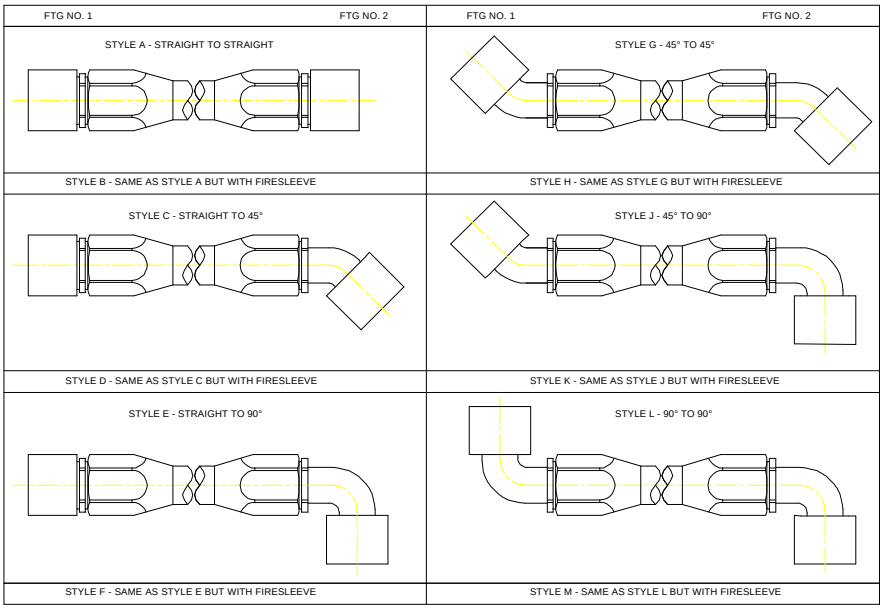


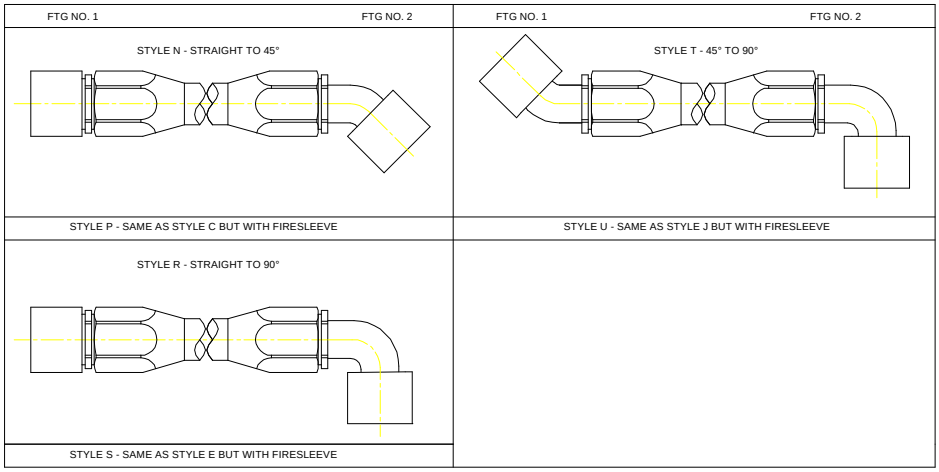

FIGURE 1. Hose assembly styles, field attachable fittings, flareless to flange.



AMSC N/A FSC 4720

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Notes:

1. See table I for fitting ends and hose cut-off factor (HCOF).

2. Fitting to mate with parts designed to MS33514 and the mounting pad as shown on MS33786, as applicable.

FIGURE I. Hose assembly styles, field attachable fittings, flareless to flange - Continued.

TABLE I. Hose assembly, field attachable fittings, HCOF, styles A thru U.

| Style | Fitting ends MIL-DTL-83798 | | MIL-DTL-83797 hose cut off factor (HCOF) inches vs hose dash size no. | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
| A and B | M83798/4 | M83798/7 | - | - | - | - | 2.34 | 2.42 | 2.62 | 3.06 | 3.57 | 3.67 | 4.20 |
| C and D | M83798/4 | M83798/8 | - | - | - | - | 2.41 | 2.59 | 2.94 | 3.47 | 3.91 | 4.36 | 5.03 |
| E and F | M83798/4 | M83798/9 | - | - | - | - | 2.34 | 2.55 | 2.96 | 3.53 | 4.03 | 4.54 | 5.32 |
| G and H | M83798/5 | M83798/8 | - | - | - | - | 2.69 | 2.94 | 3.47 | 4.09 | 4.61 | 5.11 | 5.82 |
| J and K | M83798/5 | M83798/9 | - | - | - | - | 2.62 | 2.90 | 3.49 | 4.15 | 4.73 | 5.29 | 6.11 |
| L and M | M83798/6 | M83798/9 | - | - | - | - | 2.30 | 2.54 | 3.18 | 3.86 | 4.46 | 4.94 | 5.72 |
| N and P | M83798/5 | M83798/7 | - | - | - | - | 2.62 | 2.77 | 3.15 | 3.48 | 4.17 | 4.42 | 4.69 |
| R and S | M83798/6 | M83798/7 | - | - | - | - | 2.30 | 2.41 | 2.84 | 3.39 | 3.90 | 4.07 | 4.60 |
| T and U | M83798/6 | M83798/8 | - | - | - | - | 2.37 | 2.58 | 3.16 | 3.80 | 4.34 | 4.76 | 6.43 |

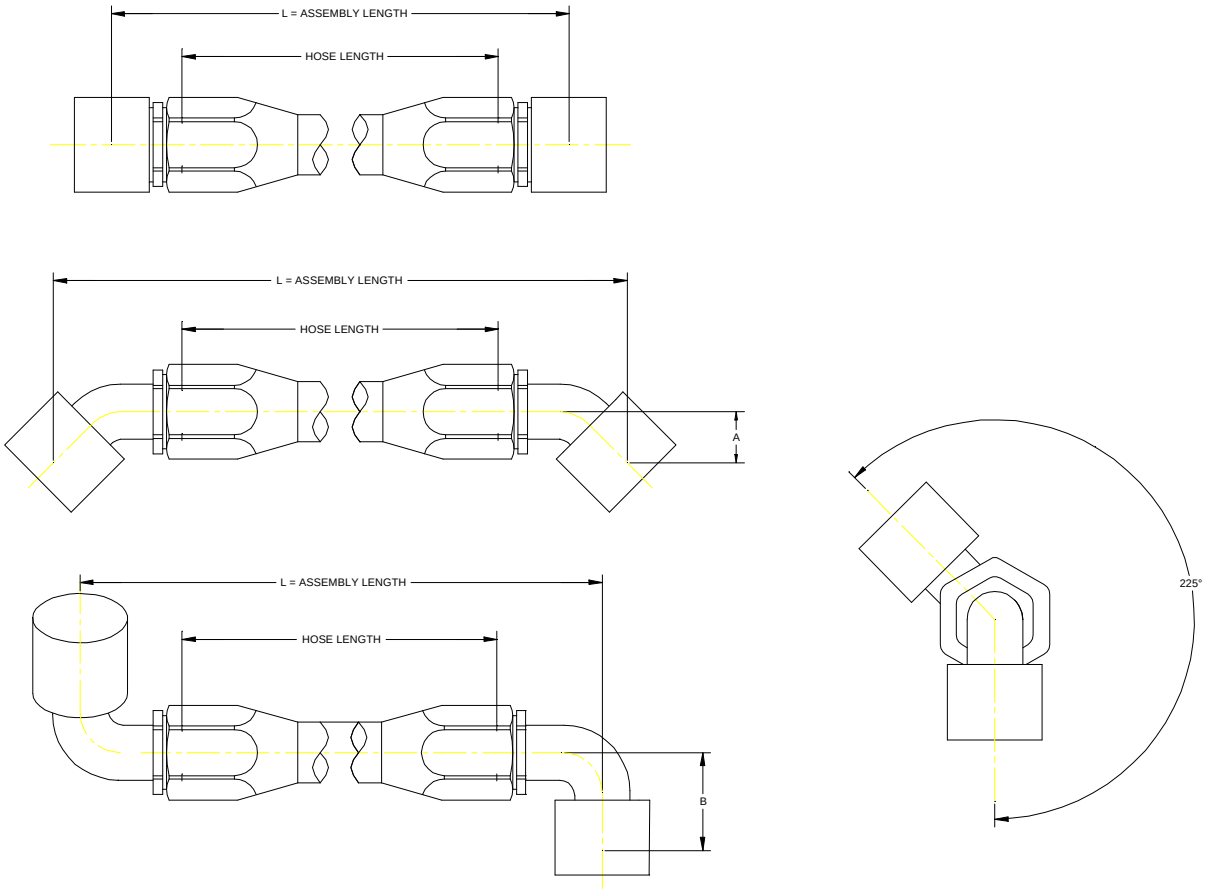
NOTES:

1. Example of hose cut-off factor: for a -10, 5/8 tube O.D., 25 1/2 assembly length, style U, the bulk hose length = 25.50 - the HCOF = 25.50 -2.58 = 22.92. Bulk hose length required is 22.92 inches.

2. Fittings to mate with parts designed to SAE AS4395 and the mounting pad as shown on MS33786, as applicable.



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NOTES:

1. Elbow fitting drop height, A and B, are as specified in applicable fitting specification sheet (see table I).

2. Hose assembly length and angular tolerance to be as specified in the general specification, MIL-DTL-83796A.

3. Length “L” to be measured between center of nipple end and center of flange sealing surface along a straight line parallel to hose length with hose laid out horizontally and straight.

4. Angle between elbow fittings. The angle, in degrees, shall be measured counterclockwise from the centerline of the nearest fitting, when positioned at six-o’clock, to the centerline of the other fitting as shown on figure.

FIGURE 2. Elbow fitting drop height and angular alignment.



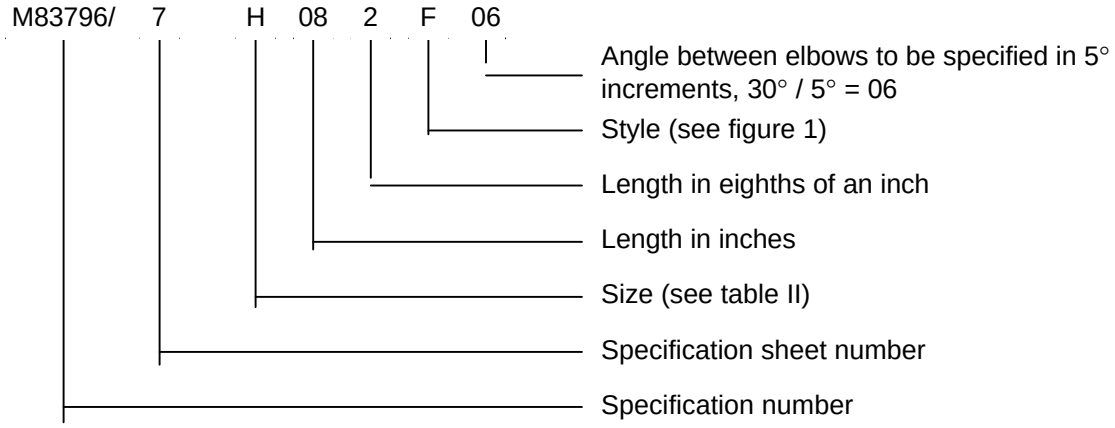
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TABLE II. Size code.

| Dash number | -3 | -4 | -5 | -6 | -8 | -10 | -12 | -16 | -20 | -24 | -32 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Tubing O.D. reference | 3/16 | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 | 1 | 1 1/4 | 1 1/2 | 2 |
| Size code | B | E | F | G | H | J | K | M | N | P | R |

The part number shall reflect the hose assembly outside diameter, length, style, and angular alignment of elbows.

Example:




M83796/7H082F06 indicates - Hose assembly for 1/2 tube O.D., 8 1/4 inches in length, style F, 30° between elbows.

Custodians:
Army - AV
Air Force - 82
Navy - AS
DLA - CC

Review activities:
Army - AT
Air Force - 11
Navy - MC, SA

Preparing activity:
DLA - CC

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