

INCH-POUND

MIL-DTL-83796/3A
18 September 2000
SUPERSEDING
MIL-H-83796/3
1 August 1974

DETAIL SPECIFICATION SHEET

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

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.

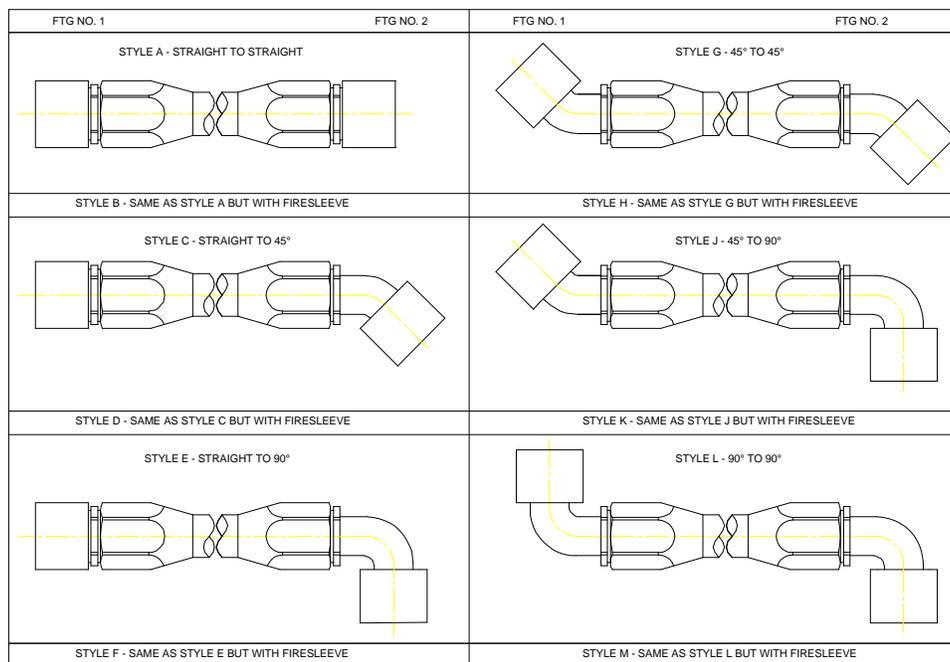


FIGURE 1. Hose assembly styles, field attachable fittings, flareless-to-flareless.

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

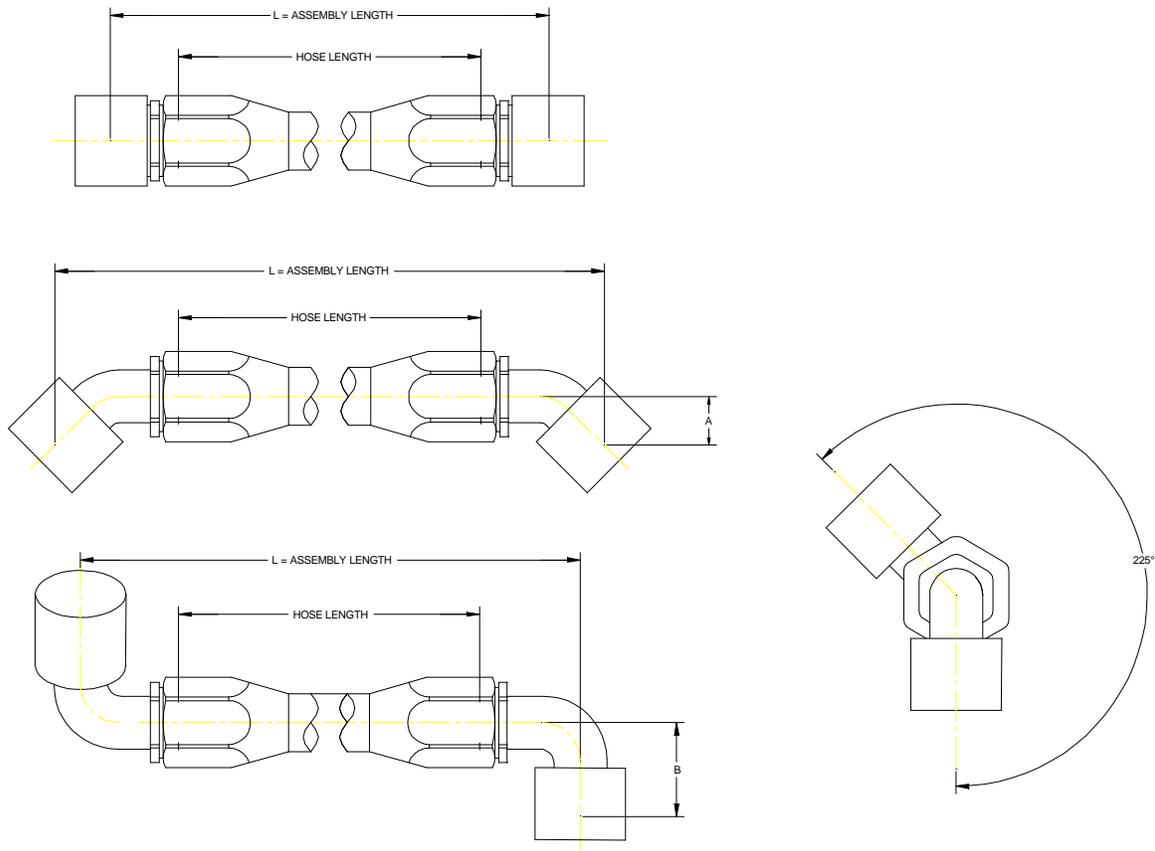
Style	Fitting ends MIL-DTL-83798		MIL-DTL-83797 hose cut off factor (HCOF) inches vs hose dash size no.										
	1	2	-3	-4	-5	-6	-8	-10	-12	-16	-20	-24	-32
A and B	M83798/4	M83798/4	1.88	1.78	1.84	2.08	2.38	2.56	2.74	3.20	3.60	4.14	4.92
C and D	M83798/4	M83798/5	2.03	2.06	2.17	2.40	2.66	2.91	3.27	3.82	4.30	4.89	5.71
E and F	M83798/4	M83798/6	1.73	1.83	1.90	2.11	2.34	2.55	2.96	3.53	4.03	4.64	5.32
G and H	M83798/5	M83798/5	2.18	2.34	2.50	2.72	2.94	3.26	3.80	4.44	5.00	5.64	6.50
J and K	M83798/5	M83798/6	1.88	2.11	2.23	2.43	2.62	2.90	3.49	4.15	4.73	5.29	6.11
L and M	M83798/6	M83798/6	1.58	1.88	1.96	2.14	2.30	2.54	3.18	3.86	4.46	4.94	5.72

NOTES:

1. Example of hose cut-off factor: for a -6, 3/8 tube O.D., 20-1/2 assembly length, style A, the bulk hose length = 20.50 - the HCOF = 20.50 - 2.08 = 18.42. Bulk hose length required is 18.44 inches.

2. Fittings to mate with parts designed to SAE AS33514.

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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 centers of nipple ends 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.

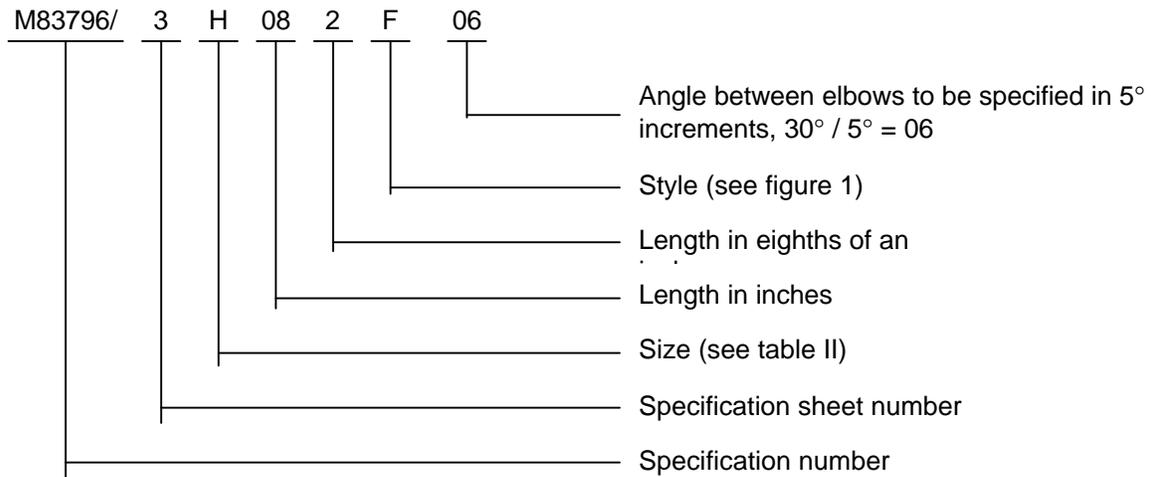
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TABLE II. Size code.

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:



M83796/3H082F06 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

Preparing activity:
 DLA - CC
 (Project 4720-0152)

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