

MS28780E
6 April 2001
SUPERSEDING
MS28780D
6 August 1982

DETAIL SPECIFICATION SHEET

FITTING END, 45° ELBOW, ATTACHABLE, HYDRAULIC, HIGH
PRESSURE HOSE (3,000 PSI), FLARED TUBE

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-8789.

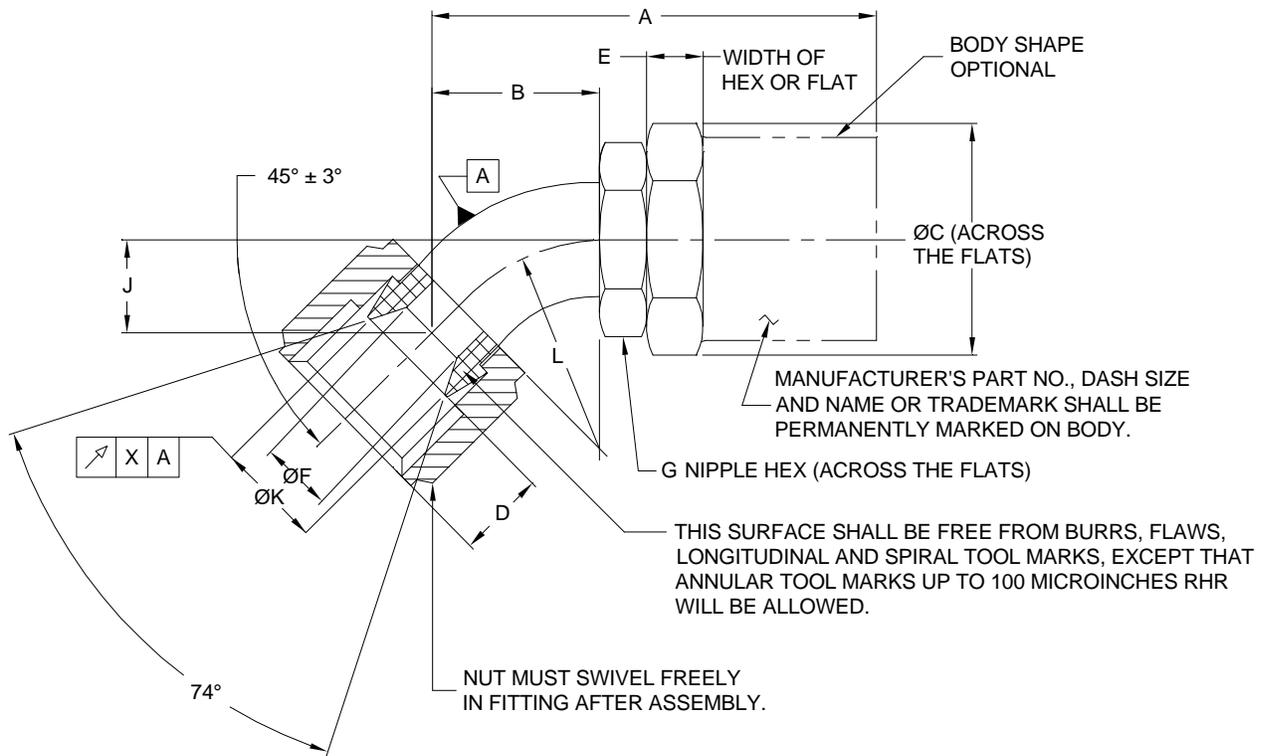


FIGURE 1. Fitting end, 45° elbow, flared tube.

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TABLE I. Fitting end sizes, dimensions and weights.

Size dash no.	Hose ID ref	Tubing OD	Nut	A Max	B Max	C Max	D	
4	7/32	1/4	AN818-4	2.875	.578	.875	.375	±.016
5	9/32	5/16	AN818-5		.656	.937		
6	11/32	3/8	AN818-6	3.000	.719	1.160		
8	7/16	1/2	AN818-8	3.125	.734	1.375	.438	±.031
10	9/16	5/8	AN818-10	3.312	.859	1.550	.515	
12	11/16	3/4	AN818-12	4.000	1.328	1.740	.562	
16	7/8	1	AN818-16	4.750	1.500	2.000	.620	

TABLE I. Fitting end sizes, dimensions, and weights - Continued.

Size dash no.	E Min	F Min	G Min	J Max	K		L ±.031	X	Wt Max (Lb)
4	.188	.146	.563	.388	.295	±.010	.375	.005	.13
5		.177	.625	.450	.355		.437		.14
6		.271	.688	.480	.435		.500		.16
8	.250	.365	.875	.490	.570		.010	.25	
10	.312	.455	1.000	.562	.680			.625	.38
12	.568	1.250	.781	.850	1.250			.51	
16	.375	.778	1.500	.844	1.103	±.015	1.500	.76	

REQUIREMENTS:

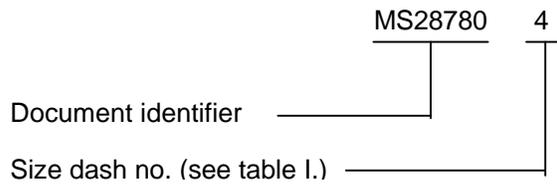
1. See table I for fitting end sizes, dimensions and weight.
2. Material: Nipples, nuts, and elbows shall be made of steel and the body shall be of aluminum as specified in MIL-DTL-8789.
3. Finish: Aluminum alloy, anodic treatment, MIL-A-8625, Type II, steel, cadmium plate, QQ-P-416, Type II, Class 3, color-black.
4. Hex or flats shall fit standard wrench openings.
5. A non-standard swivel nut may be used provided the hex and thread dimensions are in accordance with AN818 and provided the nut cannot be removed from assembly.
6. The fitting identification shall be marked in accordance with MIL-DTL-8789.
7. A true circular cross section is not required within angle of bend, however, a ball .031 smaller than "F" diameter must pass through the entire fitting.

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NOTES:

1. All dimensions are in inches.
2. Unless otherwise specified, tolerances: ± 0.005 .
3. These fittings are for use with MIL-DTL-8788 hose.
4. This specification sheet takes precedence over documents referenced herein.
5. Referenced documents shall be of the issue listed in the issue of the Department of Defense Index of Specifications and Standards (DoDISS) and supplement thereto, cited in the solicitation.
6. Part or Identifying Number (PIN):

Example of a PIN: MS28780-4



Custodians:

Air Force - 99
Army - AT
Navy - AS
DLA - CC

Preparing activity:

DLA - CC

(Project 4730-0768)

Review activities:

Air Force - 71
Army - AV, MI
Navy - SA