

INCH-POUND

MS28761C
w/AMENDMENT 1
1 October 2009
SUPERSEDING
MS28761C
24 April 2007

DETAIL SPECIFICATION SHEET

FITTING END, STRAIGHT, ATTACHABLE, HYDRAULIC, HIGH
PRESSURE HOSE 3000 PSI, FLARELESS 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 MIL-DTL-8789.

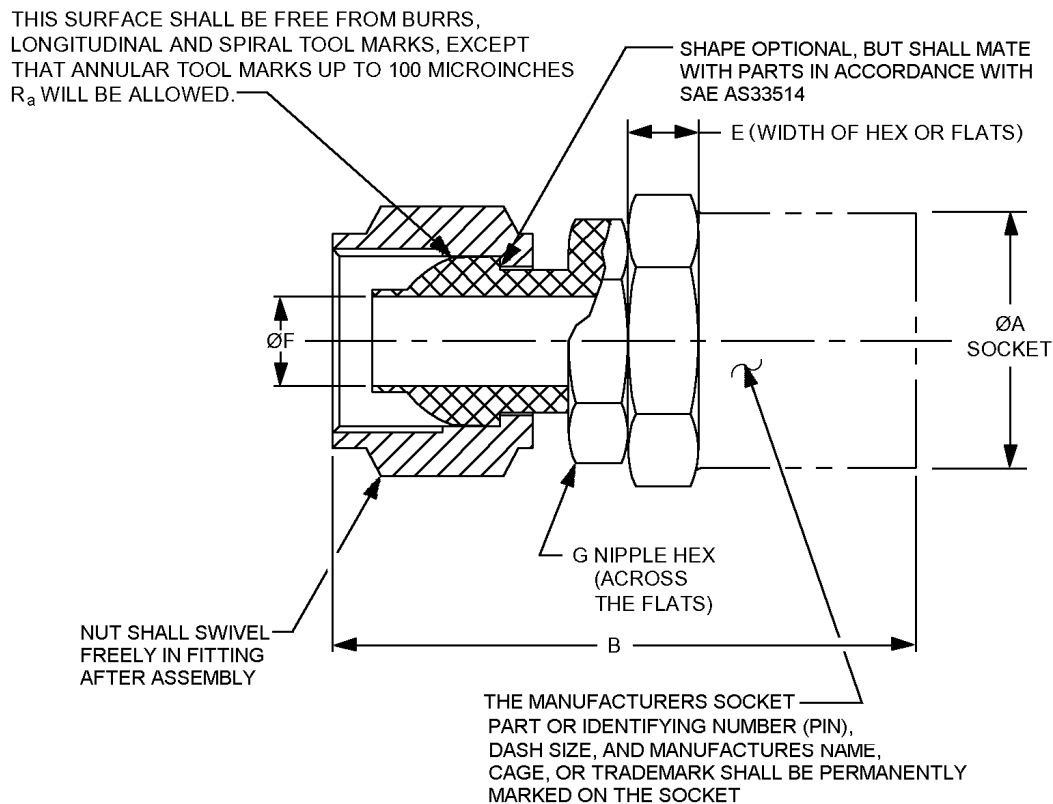


FIGURE 1. Fitting end, straight, flared tube dimensions and configuration.

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Size dash no.	Hose ID ref inch (mm)	Tubing OD inch (mm)	Nut	A max inch (mm)	B max inch (mm)
4	.219 (5.56)	.250 (6.35)	AS21921-4	.875 (22.23)	2.491 (63.27)
5	.281 (7.14)	.313 (7.95)	AS21921-5	.937 (23.80)	2.631 (66.83)
6	.344 (8.74)	.375 (9.53)	AS21921-6	1.160 (29.46)	3.000 (76.20)
8	.438 (11.13)	.500 (12.70)	AS21921-8	1.375 (34.93)	3.310 (84.07)
10	.563 (14.30)	.625 (15.88)	AS21921-10	1.550 (39.37)	3.564 (90.53)
12	.688 (17.48)	.750 (19.05)	AS21921-12	1.740 (44.20)	3.823 (97.10)
16	.875 (22.23)	1.000 (25.40)	AS21921-16	2.000 (50.80)	4.511 (114.58)

Size dash no.	E min inch (mm)	F min inch (mm)	G min (see note 5) inch (mm)
4	.188 (4.78)	.146 (3.71)	.563 (14.30)
5		.177 (4.50)	.625 (15.88)
6	.250 (6.35)	.271 (6.88)	.688 (17.48)
8		.365 (9.27)	.875 (22.23)
10	.312 (7.92)	.455 (11.56)	1.000 (25.40)
12	.375 (9.53)	.568 (14.43)	1.250 (31.75)
16		.800 (20.32)	1.500 (38.10)

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances are ± 0.005 inch (0.13 mm).
4. The fitting identification shall be marked in accordance with MIL-DTL-8789.
5. Hex or flats shall fit standard wrench openings.
6. Threads shall be in accordance with SAE-AS8879.

FIGURE 1. Fitting end, straight, flared tube dimensions and configuration - Continued.

REQUIREMENTS:

These fittings are for use with MIL-DTL-8788 hose.

See figure 1 for fitting end sizes and dimensions.

Material: Nipples and nuts shall be of steel and the socket shall be of aluminum in accordance with MIL-DTL-8789.

Finish:

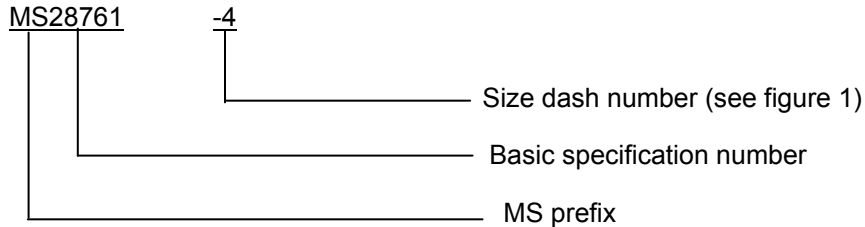
Aluminum alloy: Anodic treatment, in accordance with MIL-A-8625, type II.

Steel: Cadmium plate, in accordance with SAE-AMS-QQ-P-416, type II, class 3, color optional.

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A non-standard swivel nut may be used provided the hex and thread dimensions are in accordance with SAE AS21921 and provided the nut cannot be removed from assembly.

PIN example:



Example of a PIN: MS28761-4 indicates a .250 inch (6.35 mm) straight fitting flareless to hose.

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. In addition to MIL-DTL-8789, this document references the following:

MIL-A-8625
MIL-DTL-8788
SAE AS21921
SAE-AS8879
SAE AS33514
SAE-AMS-QQ-P-416

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 4730-2009-044)

Review activities:

Army - AV, MI
Navy - CG, MC, SA, SH
Air Force - 71

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 <http://assist.daps.dla.mil>.