

REPLACES: CS-EL-ME  
USER: AI-MC-YD

This military standard is approved for use by all Departments and Agencies of the Department of Defense. Selection for all new engineering and design applications and for repetitive use shall be made from this document when applicable.

DASH NUMBER		TUBE OD	B	C <sub>2</sub>	D		G <sub>1</sub>	H <sub>1</sub>	I <sub>1</sub>	L <sub>4</sub>
			STRAIGHT THREAD	HEX FLAT NOM	DIAMETER					
BODY	*ASSY	NOM			BASIC	TOLERANCE	+ .002 - .003	+ .010 - .000	± .020	± .020
B2	A2	1/8	5/16-24 UNF-2A	9/16	.062	± .003	.250	.125	1.110	1.870
B3	A3	3/16	3/8-24 UNF-2A	5/8	.125		.313	.131	1.110	1.900
B4	A4	1/4	7/16-20 UNF-2A	11/16	.172		.364	.140	1.200	2.070
B5	A5	5/16	1/2-20 UNF-2A	3/4	.234		.427	.140	1.200	2.070
B6	A6	3/8	9/16-18 UNF-2A	13/16	.297	± .004	.482	.156	1.280	2.180
B8	A8	1/2	3/4-16 UNF-2A	1	.391		.660	.187	1.440	2.440
B10	A10	5/8	7/8-14 UNF-2A	1-1/8	.484		.773	.219	1.580	2.740
B12	A12	3/4	1-1/16-12 UN-2A	1-3/8	.609		.945	.234	1.750	3.090
B14	A14	7/8	1-3/16-12 UN-2A	1-1/2	.718	± .005	1.070	.234	1.750	3.120
B16	A16	1	1-5/16-12 UN-2A	1-5/8	.844		1.195	.234	1.750	3.140
B20	A20	1-1/4	1-5/8-12 UN-2A	1-7/8	1.078		1.507	.234	1.800	3.310
B24	A24	1-1/2	1-7/8-12 UN-2A	2-1/8	1.312		1.756	.234	1.810	3.520
B32	A32	2	2-1/2-12 UN-2A	2-3/4	1.781	+ .010 - .005	2.381	.234	2.090	4.200

**NOTES:**

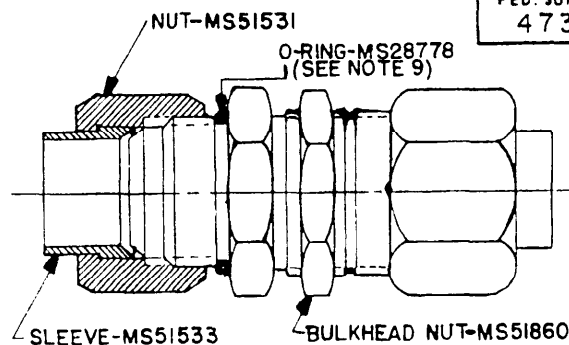
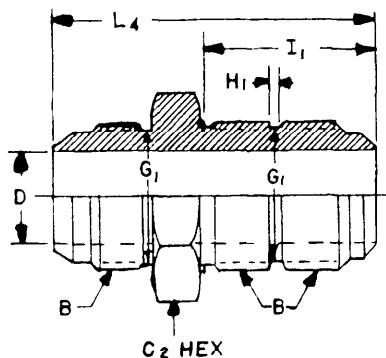
- MATERIAL:** Steel, carbon in accordance with procurement specification.  
Steel, corrosion-resisting in accordance with procurement specification.
- PROTECTIVE COATING:** Cadmium plated in accordance with procurement specification.  
Zinc plated in accordance with procurement specification.  
Phosphate coating in accordance with procurement specification.  
Passivation treatment in accordance with procurement specification.
- DIMENSIONS AND TOLERANCE:** Dimensions and tolerances not shown shall be in accordance with the SAE Standard for 37 Degree Flared Fittings (SAE J514).
- THREADS:** Threads shall be in accordance with Screw-Thread Standards for Federal Services, Handbook H28.
- PART NUMBER:** The MS part number consists of the MS number plus the dash number.  
A. For body only, cadmium plated, use the MS number, plus the body dash number.  
Example: MS51520B2.  
B. For complete assembly (with nuts and sleeves), cadmium plated, use the MS number, plus the assembly dash number. Example: MS51520A2.  
C. For zinc coating add (Z) to the dash number. Example: MS51520B2Z or MS51520A2Z.  
D. For phosphate coating add (P) to the dash number. Example: MS51520B2P or MS51520A2P.  
E. For corrosion-resisting steel add (S) to the dash number.  
Example: MS51520B2S or MS51520A2S.
- For design feature purposes, this standard takes precedence over procurement documents referenced herein.
- Reference documents shall be of the issue in effect on date of invitations for bid.
- The illustration is for identification purpose only and is not intended to restrict designs and shapes not dimensioned.
- Procure O-Rings separately and install immediately before installation of fitting.
- After 17 January 1979 bodies will be used for production only and SHALL NOT be stocked for maintenance. Existing stock of bodies should be used until depleted.

P.A. AR Other Cust. OS	TITLE  NIPPLE, TUBE, BULKHEAD, 37° FLARED	MILITARY STANDARD  MS51520
PROCUREMENT SPECIFICATION MIL-F-18866	SUPERSEDES:	SHEET 1 OF 1

APPROVED 20 DEC 1974 REVISED 17 JANUARY 1979

DD FORM 672-1 (Previous)

PREVIOUS EDITIONS OF THIS FORM ARE OBSOLETE

FED. SUP CLASS  
4730

INCH-POUND

MS51520A  
AMENDMENT 1  
18 August 1994

## MILITARY SPECIFICATION SHEET

### NIPPLE, TUBE, BULKHEAD, 37 DEGREES FLARED

This amendment forms a part of MS51520A dated 17 January 1979 and is approved for use by all Departments and Agencies of the Department of Defense.

NOTES: Add new note as follows: "11. MS51520 part may be supplied without meeting dimensions  $G_1$  and  $H_1$  specified herein. After 28 June 1996, MS51520 parts shall not be supplied with dimensions  $G_1$  and  $H_1$ ."

#### Custodians:

Army - AR  
Navy - OS

Preparing Activity:  
Army - AR

#### Review Activities:

Army - AT, ME  
Navy - MC, YD  
DLA - CS

(Project 4730-0387)

AMSMC N/A

1 of 1

FSC 4730

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