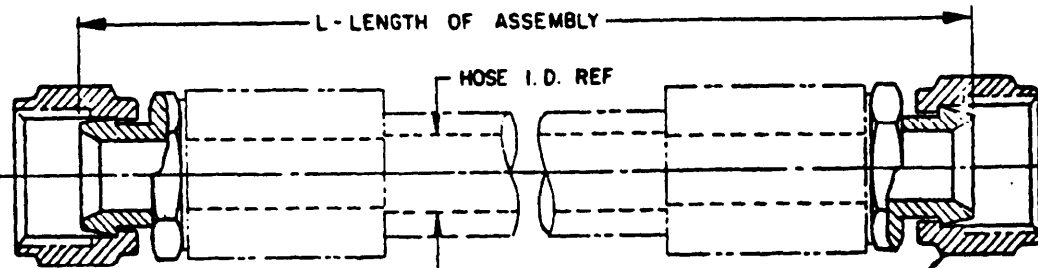


REVIEW ACTIVITIES: ARMY - MI, ME, WC, MU; NAVY - SH  
USER ACTIVITIES: ARMY - AV

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.



©

TABLE I

PERMANENT FITTINGS	DASH NO. REUSEABLE FITTINGS	HOSE I.D. REF.	HOSE O.D. REF.		FITTING THREAD REF.
			CLASS A	CLASS B	
-3	-33	3/16	.625	.535	3/8 - 24
-4	-34	1/4	.687	.593	7/16 - 20
-6	-35	3/8	.843	.754	9/16 - 18
-8	-36	1/2	.968	.874	3/4 - 16
-10	-37	5/8	1.093	1.008	7/8 - 14
-12	-38	3/4	1.250	1.156	1-1/16 - 12
-16	-39	1	1.562	1.500	1-5/16 - 12
-20	-40	1-1/4	2.000	1.867	1-5/8 - 12
-24	-41	1-1/2	2.250	2.148	1-7/8 - 12
-32	-42	2	2.750	2.648	2-1/2 - 12

NUT MUST SWIVEL FREELY AFTER ASSEMBLY

NOTES:

1. MATERIAL: THE HOSE USED IN THESE ASSEMBLIES SHALL BE IN ACCORDANCE WITH MIL-H-13531, TYPE II OR III, CLASS A OR B.
2. FITTINGS SHALL BE OF THE SAE J516 FEMALE 37° FLARED TYPE AND AS SPECIFIED IN MIL-H-13531.
3. HOSE ASSEMBLIES SHALL BE SPECIFIED IN THE FOLLOWING LENGTH INCREMENTS:
  - A. UNDER 24 INCHES - 1/2 INCH INCREMENTS.
  - B. 24 TO 36 INCHES - 1 INCH INCREMENTS.
  - C. OVER 36 INCHES - IN NOT LESS THAN 2 INCH INCREMENTS.
4. TOLERANCES: ± 1/8 FOR LENGTH UNDER 24 INCHES, ± 1/4 FOR LENGTH FROM 24 TO 36 INCHES, ± 1% FOR LENGTH OVER 36 INCHES.
5. THE MS PART NUMBER SHALL CONSIST OF THE MS NUMBER; THE DASH NUMBER INDICATING SIZE AND TYPE FITTING; THE CODE LETTER INDICATING FITTING MATERIAL ("A" INDICATES CARBON STEEL, CADMIUM PLATED AND "Z" INDICATES CARBON STEEL, ZINC PLATED) AND A CODE NUMBER INDICATING LENGTH. EXAMPLE: MS500083A080164
 

\_\_\_\_\_ FRACTIONS IN EIGHTHS OF AN INCH  
\_\_\_\_\_ INCHES IN LENGTH  
\_\_\_\_\_ DASH NO.  
\_\_\_\_\_ FITTING MATERIAL  
\_\_\_\_\_ MS NUMBER
6. THREADS SHALL BE IN ACCORDANCE WITH SCREW THREAD STANDARDS FOR FEDERAL SERVICES HANDBOOK H28.
7. FOR DESIGN FEATURE PURPOSES, THIS STANDARD TAKES PRECEDENCE OVER PROCUREMENT DOCUMENTS REFERENCE HEREIN.
8. THIS STANDARD IS NOT INTENDED TO LIMIT CONSTRUCTION TO FEATURES OTHER THAN AS SHOWN HEREON BY DIMENSIONS, NOTATIONS, AND REFERENCED DOCUMENTS.
9. REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID.
10. MARKING SHALL CONSIST OF THE MS PART NUMBER, MANUFACTURER'S IDENTIFICATION AND DATE OF ASSEMBLY IN ACCORDANCE WITH PROCUREMENT SPECIFICATION AND MIL-STD-190.

© FOR CHANGES SEE SHEET 1 AND 2

P.A. ARMY - AT Other Code NAVY - SH	TITLE <b>HOSE ASSEMBLY, NONMETALLIC: HYDRAULIC AND PNEUMATIC HIGH PRESSURE, FLARED TUBE</b>	MILITARY STANDARD <b>MS500083</b>
PROCUREMENT SPECIFICATION MIL-H-13531	SUPERSEDES MS39154 (ORD) SEE TABLE II, SHEET 2	SHEET 1 OF 2

DD FORM 672-1 coordinated

PREPARED BY THE DEPARTMENT OF DEFENSE

APPROVED 7 JUNE 1967 REVISED A 26 JULY 1968 B 16 JULY 1969 C 24 OCTOBER 1973

FED. SUP. CLASS  
4720

## INTERCHANGEABILITY TABLE

THE MS 39154 (ORD) DASH NUMBERS LISTED BELOW ARE CANCELLED AFTER 7 JUNE 1967. THE CANCELLED HOSE ASSEMBLIES SHOULD BE USED FOR MAINTENANCE PURPOSES UNTIL EXISTING STOCK IS EXHAUSTED. USE ONLY THE SUPERSEDING HOSE ASSEMBLIES FOR NEW DESIGN AND PROCUREMENT.

A CROSS REFERENCE BETWEEN CORRESPONDING DASH NUMBERS OF REVISIONS "A" AND "B" OF MS 500083 WHICH RELATE TO HOSE INSIDE DIAMETERS, IS SHOWN FOR INFORMATION PURPOSES.

TABLE II

CANCELLED MS 39154 (ORD) DASH NO.	MS 500083, REV. A DASH NO. (REF)	SUPERSEDING MS 500083, REV. B DASH NO.	HOSE I.D. (REF)
-4	-4	-3	$\frac{3}{8}$
-5	-5	-4	$\frac{1}{2}$
-6	-6	NO REQUIREMENTS	$\frac{5}{8}$
-8	-8	-6	$\frac{3}{4}$
-10	-10	-8	$\frac{1}{2}$
-12	-12	-10	$\frac{3}{8}$
-16	-16	NO REQUIREMENTS	$\frac{7}{8}$

APPROVED 7 JUNE 1967 REVISED © FOR CHANGES SEE SHEET 1 AND 2

P & ARMY-AT	TITLE	MILITARY STANDARD
Other Code	HOSE ASSEMBLY, NONMETALLIC: HYDRAULIC AND PNEUMATIC, HIGH PRESSURE, FLARED TUBE	MS500083
NAVY-SH		
PROCUREMENT SPECIFICATION MIL-H-13531	SUPERSEDES	SHEET 2 OF 2
	MS 39154 (ORD) SEE TABLE II, SHEET 2	

FOLD

POSTAGE AND FEES PAID  
DEFENSE SUPPLY AGENCY

DEFENSE SUPPLY AGENCY  
OFFICIAL BUSINESS

Commander  
US Army Tank-Automotive Command  
ATTN: AMSTA-RSEM  
Warren, Michigan 48090

FOLD

SPECIFICATION ANALYSIS SHEET		Form Approved Budget Bureau No. 22-R255
<b>INSTRUCTIONS:</b> This sheet is to be filled out by personnel, either Government or contractor, involved in the use of the specification in procurement of products for ultimate use by the Department of Defense. This sheet is provided for obtaining information on the use of this specification which will insure that suitable products can be procured with a minimum amount of delay and at the least cost. Comments and the return of this form will be appreciated. Fold on lines on reverse side, staple in corner, and send to preparing activity. Comments and suggestions submitted on this form do not constitute or imply authorization to waive any portion of the referenced document(s) or serve to amend contractual requirements.		
SPECIFICATION <div style="text-align: center; font-weight: bold;">MS500083</div>		
ORGANIZATION		
CITY AND STATE	CONTRACT NUMBER	
MATERIAL PROCURED UNDER A <input type="checkbox"/> DIRECT GOVERNMENT CONTRACT <input type="checkbox"/> SUBCONTRACT		
1. HAS ANY PART OF THE SPECIFICATION CREATED PROBLEMS OR REQUIRED INTERPRETATION IN PROCUREMENT USE? A. GIVE PARAGRAPH NUMBER AND WORDING.		
B. RECOMMENDATIONS FOR CORRECTING THE DEFICIENCIES		
2. COMMENTS ON ANY SPECIFICATION REQUIREMENT CONSIDERED TOO RIGID		
3. IS THE SPECIFICATION RESTRICTIVE? <input type="checkbox"/> YES <input type="checkbox"/> NO (If "yes", in what way?)		
4. REMARKS (Attach any pertinent data which may be of use in improving this specification. If there are additional papers, attach to form and place both in an envelope addressed to preparing activity)		
SUBMITTED BY (Printed or typed name and activity - Optional)		DATE

DD FORM 1426  
1 JAN 66

REPLACES EDITION OF 1 OCT 64 WHICH MAY BE USED.