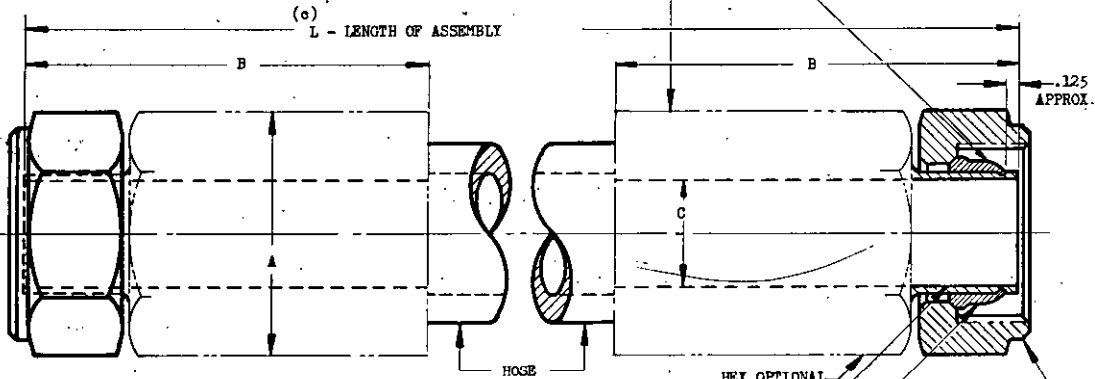


FED. SUP CLASS.  
4720

THIS PORTION MAY BE SAE 1010 STEEL OR EQUAL, OR ALUMINUM ALLOY SPECIFICATION QQ-A-351 BOTH ENDS

THIS PORTION OF THE NIPPLE MAY BE MACHINED IN LIEU OF USING THE SLEEVE BUT MUST MATE WITH PARTS IN ACCORDANCE WITH MS33514



**INACTIVE FOR DESIGN AFTER 17 OCTOBER 1956. USE MS28762.**

NIPPLE SHALL BE STEEL AS SPECIFIED IN SPECIFICATION MIL-F-5509

IF SLEEVE MS21918 IS USED IT MUST BE PREASSEMBLED ON NIPPLE

FOR DEFINITION AND APPLICATION OF DRAWING STATUS NOTES, SEE ANA BULLETIN NO. 337.

NUT MUST SWIVEL FREELY ON FITTING AFTER ASSEMBLY, BOTH ENDS

DASH NO.	TUBING OD	(b) MIN HOSE ID NORMAL REF	SLEEVE MS21918	(a) A MAX	B MAX	C MIN DIA	MAX WORKING PRESSURE PSI
- 4-	1/4	3/16	- 4	.875	2.56	.146	3000
- 5-	5/16	1/4	- 5	.937	2.62	.177	3000
- 6-	3/8	5/16	- 6	1.160	2.88	.271	3000
- 8-	1/2	7/16	- 8	1.375	3.25	.365	3000
-10-	5/8	9/16	-10	1.550	3.50	.455	3000
-12-	3/4	11/16	-12	1.740	3.75	.568	3000
-16-	1	7/8	-16	1.950	4.18	.800	3000

**(D) CANCELED AFTER 1 JULY 1965.**

**USE MS28762.**

- (a) IF HEX BODY IS USED, IT SHALL FIT STANDARD WRENCH OPENINGS.
- (b) MINIMUM HOSE DIAMETER AS MANUFACTURED, SEE PROCUREMENT SPECIFICATION.
- (c) TOLERANCES ON LENGTH L:
  - $\pm 1/8$  (L UNDER 24)
  - $\pm 1/4$  (L FROM 24 TO 36)
  - $\pm 1/2$  (L FROM 36 TO 50)
  - $\pm 1$  PERCENT (L OVER 50).

EXAMPLE OF PART NO: MS28751-8-0114 = HOSE ASSEMBLY; 1/2 OD TUBING, L = 14-1/2 INCHES.

MULTIPLES OF 1/8 INCH. INCHES. SIZE.

LENGTH L SHALL ALWAYS BE SPECIFIED BY 4 DIGITS; THE LAST DIGIT SHALL ALWAYS INDICATE FRACTIONS IN EIGHTHS OF AN INCH. ASSEMBLY LENGTHS L AVAILABLE IN 1/2-INCH INCREMENTS UP TO 24 INCHES, IN 1-INCH INCREMENTS FROM 24 TO 36 INCHES, AND IN 2-INCH INCREMENTS FOR LENGTHS 36 INCHES AND ABOVE. THIS STANDARD TAKES PRECEDENCE OVER DOCUMENTS REFERENCED HEREIN. MATERIAL: SEE PROCUREMENT SPECIFICATION.

FINISH: ALL ALUMINUM-ALLOY PARTS SHALL BE ANODIZED, SPECIFICATION MIL-A-8625 FOR NAVY, OR MIL-P-12011(ORD) FINISH NO. 23.04 FOR ARMY. ALL STEEL PARTS SHALL BE CALCIUM PLATED, SPECIFICATION QQ-P-416, TYPE I, CLASS C.

REMOVABLE TAG SHOWING MS NO. AND DATE OF ASSEMBLY SHALL BE ATTACHED TO HOSE ASSEMBLY. THIS TAG SHALL BE REMOVED UPON INSTALLATION IN AIRCRAFT.

HOSE ASSEMBLIES SHALL BE SUITABLE FOR USE WITH PARTS DESIGNED IN ACCORDANCE WITH STANDARD MS33514 OR MS33515.

THIS PART IS TO BE USED ONLY WHEN APPROVED BY THE PROCURING ACTIVITY.

REMOVE ALL BURRS AND SHARP EDGES.

DIMENSIONS IN INCHES. UNLESS OTHERWISE SPECIFIED, TOLERANCES: FRACTIONS  $\pm 1/64$ , DECIMALS  $\pm .005$ , ANGLES  $\pm 1^\circ$ .

IF IN ASSEMBLING OR TESTING OF HOSE ASSEMBLIES, THREADS OF COUPLING NUTS BECOME SLIGHTLY DISTORTED AND FALL BELOW A CLASS 3B THREAD TOLERANCE BUT NOT BELOW A CLASS 2B, THESE ASSEMBLIES WILL BE ACCEPTABLE FOR USE ON AIR FORCE AND NAVY AIRCRAFT.

FOR ACCEPTABLE PRODUCTS SEE QPL-5512.

REFERENCED DOCUMENTS SHALL BE OF THE ISSUE IN EFFECT ON DATE OF INVITATIONS FOR BID. THIS DOCUMENT HAS BEEN PROMULGATED BY THE DEPARTMENT OF DEFENSE AS THE MILITARY STANDARD TO LIMIT THE SELECTION OF THE ITEM, PRODUCT, OR DESIGN COVERED HEREIN IN ENGINEERING, DESIGN, AND PROCUREMENT. THIS STANDARD SHALL BECOME EFFECTIVE NOT LATER THAN 90 DAYS AFTER THE LATEST DATE OF APPROVAL SHOWN.

P.A. Navy - WP.	<b>MILITARY STANDARD</b>	<b>MS28751</b> (ASG)
Other Cust USAF - 11		
PROCUREMENT SPECIFICATION MIL-H-5512	SUPERSEDES:	SHEET 1 OF 1

Review activities:

This standard has been approved by the BuAip (Department of the Navy) and the Department of the USAF and is mandatory for use by that activity. All other military activities are required to employ this standard where suitable.

APPROVED 16 Jun 53  
REVISED 22 Dec 55  
B 7 Sep 56  
C 17 Oct 56  
D 1 Jul 65