

INCH-POUND

MS27626B
22 October 2009
SUPERSEDING
MS27626A
29 September 2000

DETAIL SPECIFICATION SHEET

NIPPLE, FLARED, TUBE TO HOSE-SWIVEL NUT

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-83296.

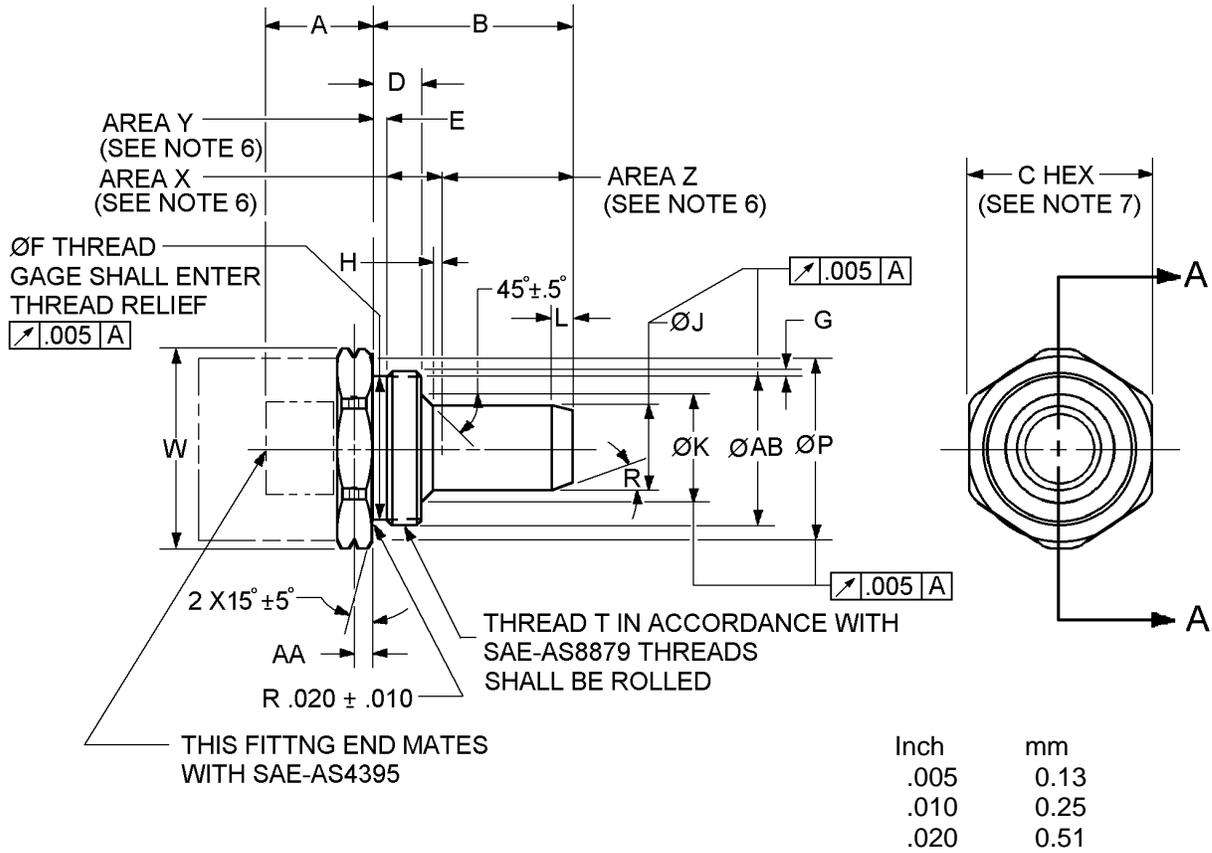
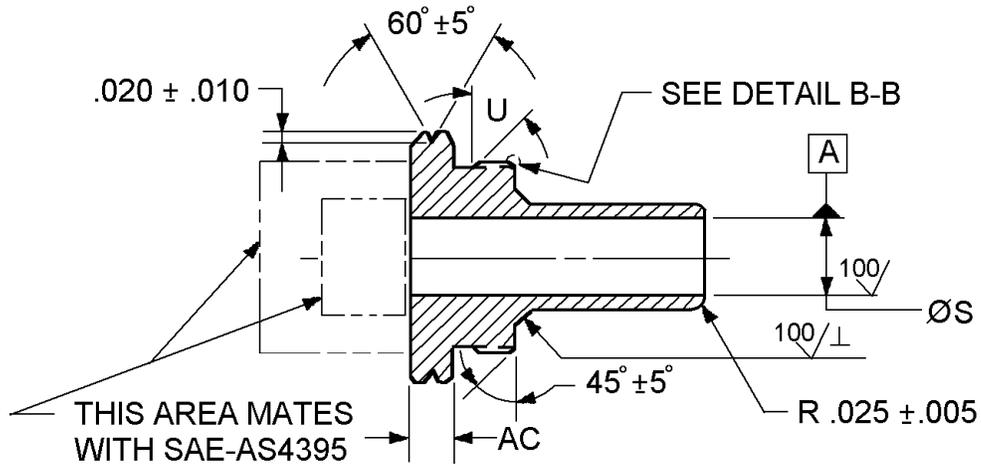
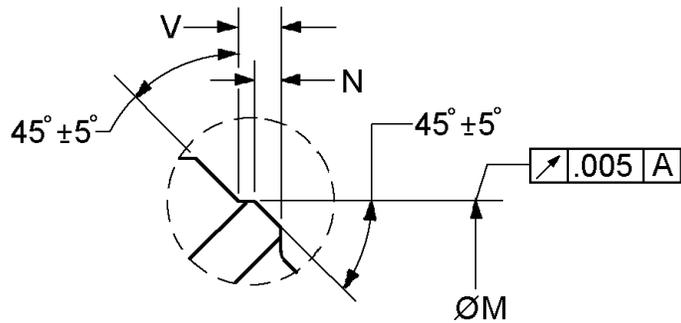


FIGURE 1. Nipple, flared, dimensions and configuration.

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SECTION A-A



DETAIL B-B

-8 SIZE ONLY

Inch	mm
.005	0.13
.010	0.25
.020	0.51
.025	0.66

Part or Identifying Number (PIN)	A	B	C inch (mm)	D	E	F	G ±.005 (0.13) inch (mm)
	±.010 (0.25) inch (mm)	±.005 (0.13) inch (mm)		±.005 (0.13) inch (mm)	±.005 (0.13) inch (mm)	±.005 (0.13) inch (mm)	
MS27626-4C	.428 (10.87)	.929 (23.60)	.750 (19.05)	.379 (9.63)	.110 (2.79)	.544 (13.82)	.041 (1.04)
MS27626-6C	.545 (13.84)	.981 (24.92)	.875 (22.23)	.361 (9.17)	.085 (2.16)	.660 (16.76)	.043 (1.09)
MS27626-8C	.630 (16.00)	1.137 (28.88)	1.000 (25.40)	.400 (10.16)	.100 (2.54)	.813 (20.65)	-
MS27626-10C	.735 (18.67)	1.388 (35.26)	1.250 (31.75)	.338 (8.59)	.100 (2.54)	.989 (25.12)	.037 (.94)

FIGURE 1. Nipple, flared, dimensions and configuration - Continued.

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PIN	H ±.050 (1.27) inch (mm)	J +.000 -.005 (-0.13) inch (mm)	K ±.005 (0.13) inch (mm)	L ±.005 (0.13) inch (mm)	M ±.010 (0.25) inch (mm)	N ±.005 (0.13) inch (mm)	P ±.02 inch (mm)
MS27626-4C	.100 (2.54)	.250 (6.35)	.420 (10.67)	-	-	-	.72 (18.29)
MS27626-6C		.343 (8.71)	.495 (12.57)	-	-	-	.84 (21.34)
MS27626-8C		.445 (11.30)	.610 (15.49)	-	.783 (19.89)	.030 (0.76)	.97 (24.64)
MS27626-10C		.588 (14.94)	.762 (19.35)	.150 (3.81)	-	-	1.22 (30.99)

PIN	R ±.5°	S ±.005 (0.13) inch (mm)	Thread T	Pitch diameter inch (mm)	U ±5°
MS27626-4C	-	.161 (4.09)	.625-18UNJF-3A	.5889/.5854 (14.958/14.869)	45°
MS27626-6C	-	.271 (6.88)	.750-16UNJF-3A	.7094/.7056 (18.189/17.922)	
MS27626-8C	-	.375 (9.53)	.875-24UNJS-3A	.8479/.8448 (21.537/21.458)	30°
MS27626-10C	10°	.465 (11.81)	1.0625-20UNJ-3A	1.0300/1.0266 (26.162/26.076)	45°

PIN	V ±.005 (0.13) inch (mm)	W ±.005 (0.13) inch (mm)	AA ±.005 (0.13) inch (mm)	AB inch (mm)		AC ±.005 (0.13) inch (mm)
MS27626-4C	-	.825 (20.96)	.069 (1.75)	.625 (15.88)	+.000 -.009 (+.000 -0.23)	.138 (3.51)
MS27626-6C	-	.962 (24.43)	.092 (2.34)	.750 (19.05)		.185 (4.70)
MS27626-8C	.050 (1.27)	1.100 (27.94)	.095 (2.41)	.875 (22.23)	+.000 -.007 (+.000 -0.18)	.190 (4.83)
MS27626-10C	-	1.375 (34.93)	.125 (3.18)	1.062 (26.97)	+.000 -.008 (+.000 -0.20)	.250 (6.35)

FIGURE 1. Nipple, flared, dimensions and configuration - Continued.

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NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified, tolerances for three place decimals are ± 0.005 inch (0.13 mm).
4. Radius or break all corners to $.005 +.005/-0.000$, unless otherwise specified.
5. Surface roughness, in accordance with ASME B46.1, shall not exceed $125 \mu\text{in } R_a$, unless otherwise specified.
6. In area X, a solid-film lubricant shall be used as specified in MIL-PRF-46010 or SAE-AS5272. Solid-film lubricant shall be allowed in area Y. Solid-film lubricant shall not extend beyond area Z.
7. For dimension C, use commercial stock size tolerances as specified in SAE-AMS2241.
8. Dimensioning and tolerancing are in accordance with ASME Y14.5M.
9. All burrs and slivers shall be removed.

FIGURE 1. Flared, nipple dimensions and configuration - Continued.

REQUIREMENTS:

Dimensions and configurations: The design, construction, and physical dimensions shall be in accordance with MIL-DTL-83296 and figure 1, in case of conflict between this specification sheet and MIL-DTL-83296, this specification sheet shall govern.

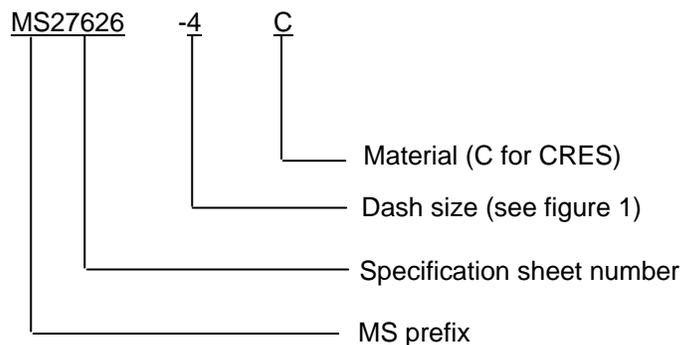
This is a design specification sheet for manufacturing purposes. The item is only procured as an integral part of adapter assembly MS27619.

This part is for use with MIL-DTL-83298 hose and hose assemblies in accordance with MIL-DTL-32330.

Material: Material shall be corrosion resistant steel (CRES), class 304, condition B (accepted classes only), as specified in ASTM A276 or ASTM A473, with minimum yield of 70,000 psi (483 MPa) for sizes -4C, -6C, and -8C and a minimum yield of 60,000 psi (552 MPa) for size -10C.

Finish: Finish shall be passivated in accordance with MIL-DTL-83296.

PIN example:



PIN example: MS27626-4C indicates a nipple 1/4 inch, CRES.

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Changes from previous issue. Marginal notations are not used in this revision to identify changes due to the extent of the changes.

Referenced documents. In addition to MIL-DTL-83296, this document references the following:

MIL-DTL-83298	ASTM A276
MIL-DTL-32330	ASTM A473
MIL-PRF-46010	SAE-AMS2241
MS27619	SAE-AS4395
ASME B46.1	SAE-AS5272
ASME Y14.5M	SAE-AS8879

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 4730-2008-044)

Review activities:

Navy - MC, SA
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>.