

INCH-POUND

MIL-DTL-83798/5D

18 August 2008

SUPERSEDING

MIL-DTL-83798/5C

27 April 2002

DETAIL SPECIFICATION SHEET

FITTINGS, RUBBER HOSE, LIGHTWEIGHT, MEDIUM PRESSURE,
FLARELESS, SWIVEL NUT, 45 DEGREES

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-83798.

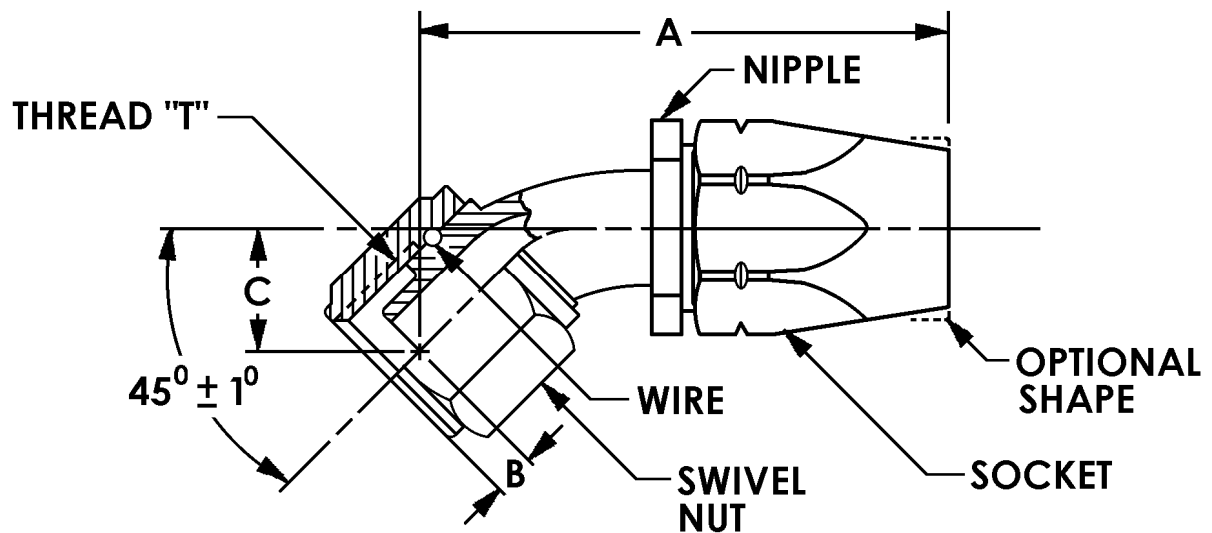


FIGURE 1. Fitting, flareless, swivel nut, 45 degrees.

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Dash Number	Thread "T"	A (max)		B		C		Weight (max)	
		inch	mm	inch ±0.03	mm ±0.76	inch ±0.035	mm ±0.889	lbs.	grams
-3	.375-24UNJF-3B	1.71	43.43	0.14	3.66	0.480	12.192	0.050	22.68
-4	.438-20UNJF-3B	1.82	46.23	0.22	5.59	0.450	11.430	0.074	33.57
-5	.500-20UNJF-3B	1.90	48.26	0.22	5.59	0.525	13.335	0.095	43.09
-6	.563-18UNJF-3B	2.13	54.10	0.20	5.08	0.578	14.681	0.055	24.95
-8	.750-16UNJF-3B	2.36	59.94	0.21	5.33	0.610	15.494	0.088	39.92
-10	.875-14UNJF-3B	2.61	66.29	0.24	6.10	0.725	18.415	0.125	56.70
-12	1.063-12UNJ-3B	2.97	75.44	0.32	8.13	0.800	20.320	0.197	89.36
-16	1.313-12UNJ-3B	3.25	82.55	0.33	8.38	0.854	21.692	0.302	136.98
-20	1.625-12UNJ-3B	3.65	92.71	0.37	9.40	0.962	24.435	0.531	240.86
-24	1.875-12UNJ-3B	3.98	101.09	0.34	8.64	1.155	29.337	0.693	314.34
-32	2.500-12UNJ-3B	4.45	113.03	0.37	9.40	1.410	35.814	1.225	555.65

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. If required, lockwire holes to be drilled in accordance with SAE-AS1043. Use the letter "L" for ordering fittings with lockwire hole.

FIGURE 1. Fitting, flareless, swivel nut, 45 degrees - Continued.

REQUIREMENTS:

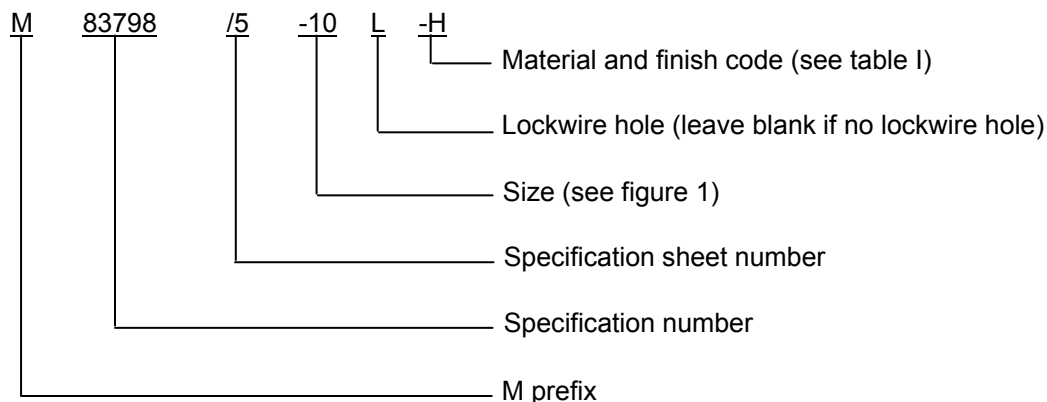
Design and construction:

Dimensions and configuration: See figure 1.

Swivel nut and seat of nipple shall mate with SAE-AS4395.

Materials and finishes. Materials and finishes for the socket, nipple, nut, and wire (swivel nut to nipple) shall be in accordance with MIL-DTL-83798.

Part or Identifying Number (PIN) example:



M83798/5-10L-H indicates: 7/8" Fitting, flareless, swivel nut, 45 degrees, with lockwire hole, with zinc phosphate finish on nipple and nut.

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Nut and nipple material and finish code for steel (sizes -3, -4, and -5) are specified in table I.

TABLE I. Nut and nipple material and finish code. ^{1/}

PIN code dash letter	Material	Plating Finish
Blank	Steel (sizes -3, -4, and -5)	Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2.
	Aluminum (sizes -6 and above)	Anodize in accordance with MIL-A-8625, type II.
-A	Steel (sizes -3, -4, and -5)	Aluminum-nickel in accordance with ASTM F1136, grade 3, NC.
-B	Aluminum (sizes -6 and above)	Anodize in accordance with MIL-A-8625, type II with Naval Air Systems Command (NAVAIR) trivalent chromium pretreatment (TCP) in accordance with MIL-DTL-81706, type 2, class A.
-CN	Steel (sizes -3, -4, and -5)	Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2 with NAVAIR TCP in accordance with MIL-DTL-81706, type 2, class A.
-H	Steel (sizes -3, -4, and -5)	Zinc phosphate finish in accordance MIL-DTL-16232 type Z, class1. ^{2/}
-J	Steel (sizes -3, -4, and -5)	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5.
N	Steel (sizes -3, -4, and -5)	NAVAIR TCP in accordance with MIL-DTL-81706, type 2, class A.
-R	Steel (sizes -3, -4, and -5)	Zinc plating in accordance with ASTM B633; type VI, Fe/Zn 5.
-S	Corrosion resistant steel (sizes -3, -4, and -5)	No additional finish. Passivation in accordance with SAE-AMS2700, method 2.
-T	Titanium (all sizes)	Annealed
-V	Steel (sizes -3, -4, and -5)	Zinc-nickel in accordance with SAE-AMS2417, type 1.
-Z	Steel (sizes -3, -4, and -5)	Zinc any type above PIN code F, G, H, J, K, R, V
-ZN	Steel (sizes -3, -4, and -5)	Zinc any type above PIN code F, G, H, J, K, R, V with trivalent chromium pretreatment (TCP) in accordance with MIL-DTL-81706, type 2, class A.

^{1/} Shall be capable of withstanding minimum of 96 hours salt spray.

^{2/} Hexavalent chromium free.

Guidance on use of alternative parts with less hazardous or nonhazardous materials. This specification provides for a number of alternative plating materials via the PIN. Users should select the PIN with the least hazardous material that meets the form, fit and function requirements of their application.

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

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Referenced documents. In addition to MIL-DTL-83798, this document references the following:

MIL-A-8625	SAE-AMS-C-81562
MIL-DTL-16232	SAE-AMS-QQ-P-416
MIL-DTL-81706	SAE-AMS2700
ASTM B633	SAE-AMS2417
ASTM B695	SAE-AS1043
ASTM F1136	SAE-AS4395

CONCLUDING MATERIAL

Custodians:

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

Preparing activity:
DLA - CC

(Project 4730-2007-122)

Review activities:

Army - AT
Navy - SA
Air Force - 71, 85

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>.