

METRIC
MIL-DTL-38999/28F
11 June 2001
SUPERSEDING
MIL-C-38999/28E
28 June 1990

MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, CIRCULAR, NUT, HEXAGON,
CONNECTOR MOUNTING, SERIES III AND IV, METRIC

This specification is approved for use by all Departments
and Agencies of the Department of Defense

The requirements for acquiring the connectors described herein
shall consist of this specification sheet and MIL-DTL-38999.

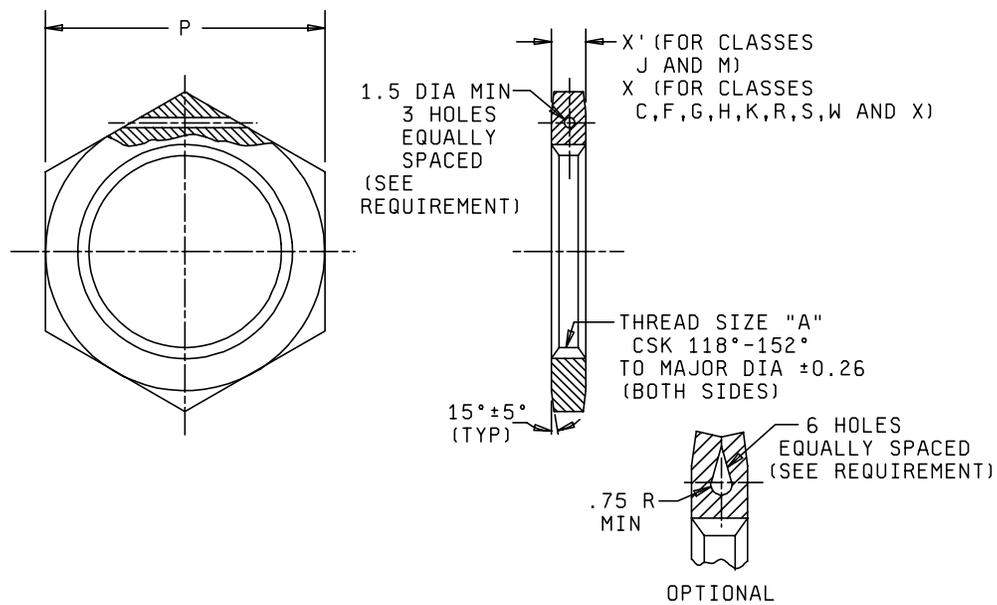


FIGURE 1. Nut hexagon.

Dash number	Shell Size		A Thread size	P Hex	X' + .29 - .00	X + .45 - .00
	Series III	Series IV				
1	9	-----	M17X1 – 6H (see note 3)	24.00 21.82	4.54	3.17
2	11	-----	M20X1 – 6H (see note 4)	27.00 24.99	4.54	3.17
3	13	11	M25X1 – 6H	32.00 29.77	4.54	3.17
4	15	13	M28X1 – 6H	36.00 32.91	4.54	3.17
5	-----	15	M31X1 – 6H	41.00 39.26	4.54	3.17
6	17	-----	M32X1 – 6H	37.00 36.12	4.54	3.17
7	-----	17	M34X1 – 6H	41.00 39.25	4.54	3.17
8	19	-----	M35X1 – 6H	41.00 39.25	4.54	3.17
9	21	19	M38X1 – 6H	46.00 42.47	4.54	3.17
10	23	21	M41X1 – 6H	50.00 45.61	4.54	3.17
11	25	23	M44X1 – 6H	51.23 49.25	4.54	3.17
12	-----	25	M47X1 – 6H	55.00 53.54	4.54	3.17

NOTES:

1. Dimensions are millimeters.
2. Remove all burrs and sharp edges.
3. Modified minor diameter: 16.04 – 16.15.
4. Modified minor diameter: 19.07 – 19.15.

FIGURE 1. Nut, hexagon – Continued.

TABLE I. Material and finish. ^{1/}

Material	Finish
Impact extruded or machined Aluminum Alloy	C
Impact extruded or machined Aluminum Alloy	F, G
Impact extruded or machined Aluminum Alloy	R, W, X
Corrosion resistant steel: ^{2/}	K, H, S
Resin with or without filler	J, M

^{1/} See corresponding MIL-DTL-38999

^{2/} Shall be cleaned, descaled and passivated in accordance with ASTM A 380.

REQUIREMENTS:

Dimensions and configurations: See figure 1.

Material: See table I.

Finish: See table I and MIL-DTL-38999.

Applicable connectors: MIL-DTL-38999, series III and IV.

Safety wire hole pull out:

Safety wire holes shall not pull out when safety wire NI – CU alloy (MONEL) (UNS NO4400) or NI – CR alloy (INCONEL) (UNS NO6600) 0.51 mm diameter in accordance with NASM20995 is threaded through a hole and a pull of 133.5 Newton minimum is applied. Three pulls shall be made, one parallel with axis of nut in each direction and one perpendicular to axis of nut.

QUALIFICATION:

Examination of product.

Safety wire hole pull out (see requirements).

Salt spray (corrosion).

Part or Identifying Number (PIN) example:



NOTE: The term PIN is equivalent to the term (part number, identification number, and type designator) which was previously used in this specification.

CONCLUDING MATERIAL

Custodians:

- Army – CR
- Navy - AS
- Air Force - 11
- DLA – CC

Preparing activity:

DLA - CC

(Project 5935-4301-09)

Review activities:

- Army - AR, MI
- Navy - EC, MC, SH
- Air Force - 19, 99