

DETAIL SPECIFICATION SHEET

PUMP, FUEL, ELECTRICALLY-OPERATED:  
24-VOLT DC, IN-TANK TYPE, SIDE-MOUNTED CONNECTOR, TYPE II

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-62011.

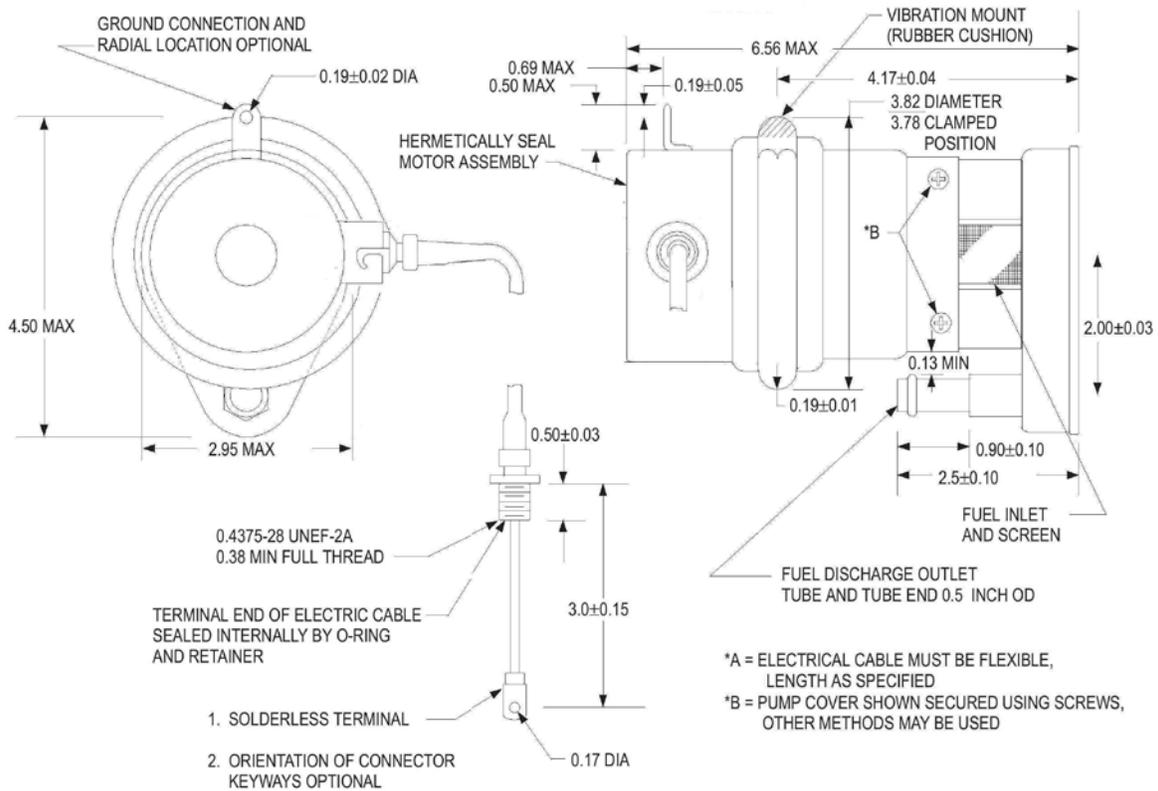


FIGURE 1. Fuel pump, side-mounted, envelope dimensions.

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Inches	mm	Inches	mm
.13	3.3	2.00	50.8
.17	4.3	2.5	64.0
.19	4.8	2.95	74.9
.25	6.4	3.0	76.0
.38	9.7	3.78	96.0
.4375	11.113	3.82	97.0
.50	12.7	4.17	105.9
.69	17.5	4.50	114.3
.90	22.9	6.56	166.6
		8.00	203.2

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.

FIGURE 1. Fuel pump, side-mounted, envelope dimensions – Continued.

REQUIREMENTS

Dimensions and configuration: See figure 1.

**Pump:** The pump shall be an electrically-operated 27.5-volt dc in-tank type pump conforming to the envelope dimensions on figure 1. The pump shall be designed to be mounted vertically within a fuel tank. The pump cover shall be secured to the pump assembly using positive means (e.g., rivets, staked pins, or screws) at a minimum of two places (see figure 1). The specific method and location is optional. The inlet area of the pump shall be covered by a screen of either wire fabric industrial grade monel or stainless steel 18 x 18 mesh with 0.017-inch (.43 mm) diameter wire (see figure 1).

**Cable:** The pump shall be provided with a top-mounted connector. The electric cable connection shall be mounted to the cylindrical surface of the motor housing and perpendicular to the longitudinal axis of the pump. A flexible shielded cable, as defined on figure 1, of a specified length may be provided. The cable shall incorporate a grounding connection for the shielding braid. An independent ground connection shall be used.

**Finish.** Finishes shall be as specified in table I. All platings shall be capable of meeting a minimum of 100 hours salt spray test in accordance with MIL-DTL-62011. The fittings shall show no evidence of corrosion after 100 hours of salt spray. Fluid passages, other openings and internal threads shall not be subject to the plating thickness requirement and may have bare areas provided they are protected with a light film of oil.

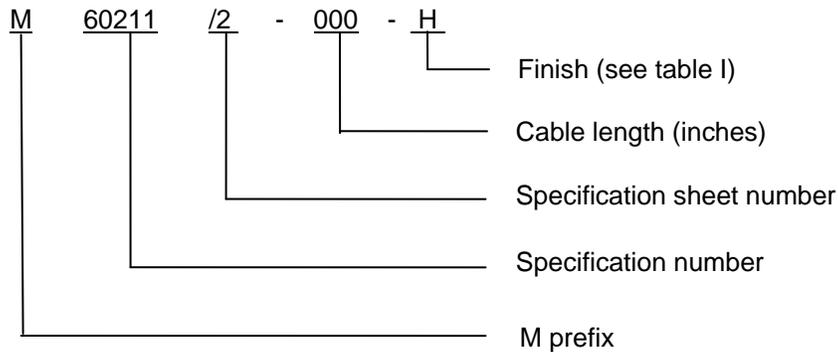
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TABLE I. Material and finish identification codes.

PIN code material/plating finish	Plating Finish
Blank	Cadmium plating in accordance with SAE-AMS-C-81562, type II, class 3 or SAE-AMS-QQ-P-416, type II, class 2.
H	Aluminum-nickel in accordance with ASTM F1136, grade 3, NC.
J	Zinc-nickel in accordance with SAE-AMS2417, type 1.
N	Nickel in accordance with SAE-AMS-QQ-N-290, class 2, grade B
P	Zinc phosphate finish in accordance MIL-DTL-16232 type Z, class1.
R	Zinc plating in accordance with ASTM B633; type VI, Fe/Zn 5.1/
Z	Zinc plating in accordance with ASTM B633; type II or III, Fe/Zn 5, or ASTM B695, type II, class 5.

1/ Hexavalent chromium free.

The Part or Identifying Number (PIN) consists of the letters M, the basic specification number, specification sheet number, a dash, the cable length, and finish.



PIN example: M62011/2-008-H

Referenced documents. In addition to MIL-DTL-62011, this document references the following:

- MIL-DTL-16232
- ASTM B633
- ASTM B695
- ASTM F1136
- SAE-AMS2417
- SAE-AMS-QQ-P-416
- SAE-AMS-C-81562
- SAE-AMS-QQ-N-290

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CONCLUDING MATERIAL

Custodians:

Army - AT  
Navy - AS  
Air Force – 99  
DLA - CC

Preparing activity:

DLA - CC

(Project 2910-2009-005)

Review activities:

Navy - MC  
Air Force – 70, 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>.