

INCH-POUND

MIL-DTL-3971/1F

18 March 2008

SUPERSEDING

MIL-DTL-3971/1E

24 January 2001

DETAIL SPECIFICATION SHEET

METERS, TIME TOTALIZING, NON-HERMETICALLY SEALED,
ELECTRICAL: TYPE 1, 10-40V OR 40-130V OR 10-130V:
GRADES A AND B, 2 HOLE AND 3 HOLE FLANGE

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

The complete requirement for procuring meters described herein shall consist of this
document and the issue in effect of MIL-DTL-3971.

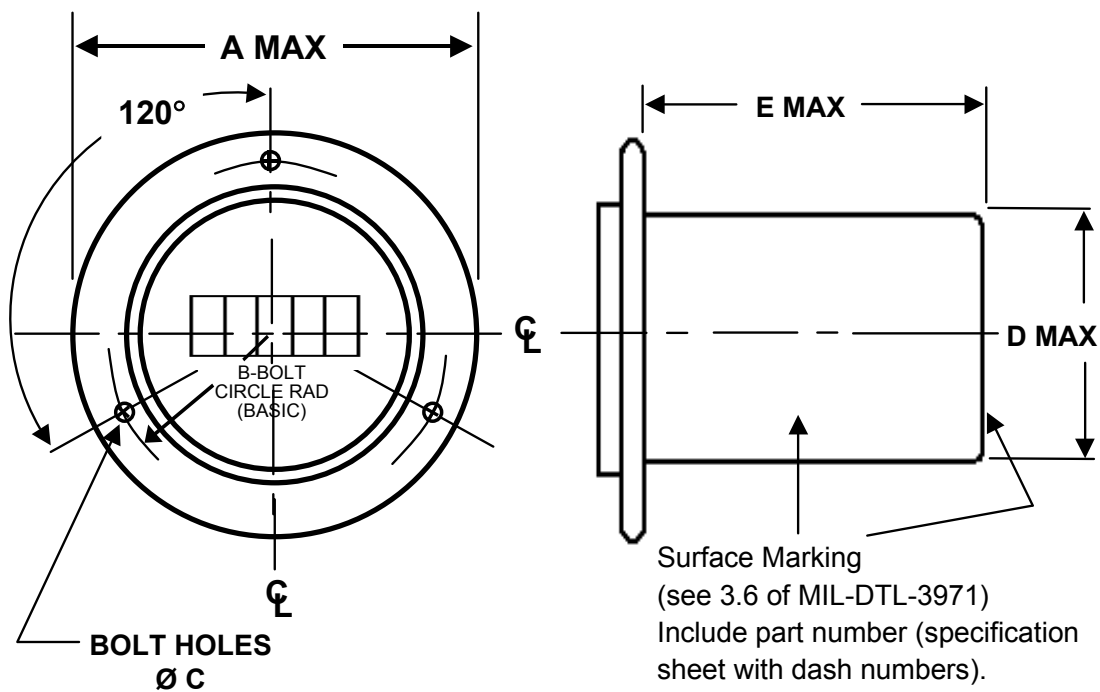


FIGURE 1. Meter with 3 hole flange.

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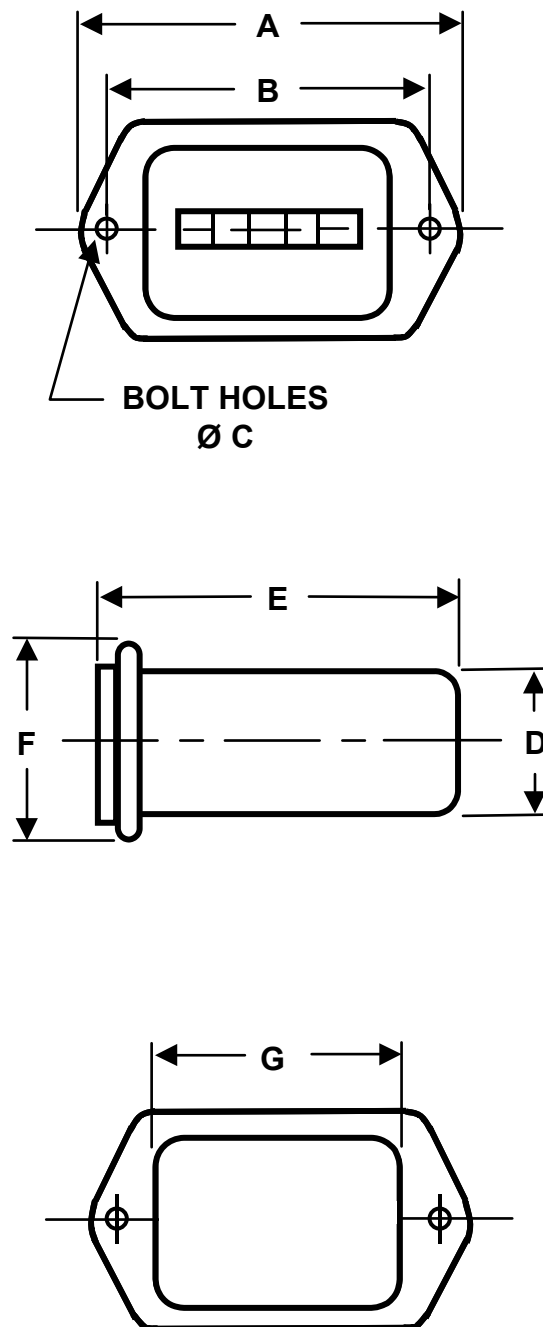


FIGURE 2. Meter with 2 hole flange.

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TABLE I. Specification data for type I meters.

| DASH NO. | FIG. | A | B | C | D | E | F | G | Grade | Voltage | Range | Readout |
|----------|------|-------|-------|------|-------|-------|------|-------|-------|---------|--------|---------|
| 1 | 1 | 2.875 | 1.265 | .150 | 2.210 | 3.00 | — | — | A | 10-40 | 10,000 | 9999.9 |
| 2 | 1 | 2.875 | 1.265 | .150 | 2.210 | 3.00 | — | — | A | 40-130 | 10,000 | 9999.9 |
| 3 | 1 | 3.500 | 1.580 | .150 | 2.625 | 3.00 | — | — | A | 10-40 | 10,000 | 9999.9 |
| 4 | 1 | 3.500 | 1.580 | .150 | 2.625 | 3.00 | — | — | A | 40-130 | 10,000 | 9999.9 |
| 5 | 1 | 2.875 | 1.265 | .150 | 2.210 | 3.00 | — | — | B | 10-40 | 10,000 | 9999.9 |
| 6 | 1 | 2.875 | 1.265 | .150 | 2.210 | 3.00 | — | — | B | 40-130 | 10,000 | 9999.9 |
| 7 | 1 | 3.500 | 1.580 | .150 | 2.625 | 3.00 | — | — | B | 10-40 | 10,000 | 9999.9 |
| 8 | 1 | 3.500 | 1.580 | .150 | 2.625 | 3.00 | — | — | B | 40-130 | 10,000 | 9999.9 |
| 9 | 1 | 2.810 | 1.580 | .150 | 2.135 | 1.75 | — | — | B | 10-130 | 10,000 | 9999.9 |
| 10 | 1 | 3.500 | 1.580 | .150 | 2.135 | 1.75 | — | — | B | 10-130 | 10,000 | 9999.9 |
| 11 | 2 | 2.120 | 1.750 | .150 | .900 | 1.950 | .125 | 1.414 | A | 10-40 | 10,000 | 9999.9 |
| 12 | 2 | 2.120 | 1.750 | .150 | .900 | 1.950 | .125 | 1.414 | B | 10-40 | 10,000 | 9999.9 |

Notes:

- Dimensions are in inches (in.).
- Tolerances: Dimensional ± 0.015 in., bolt holes $\pm .005$ in. unless otherwise indicated. Angular $\pm 0.5^\circ$.
- Range and readout are in hours and tenths of hours.

1. REQUIREMENTS

1.1 Dimensions of case. See figures 1 and 2 and table I as applicable.

1.2 Colors, elapsed time indicator:

Hours: White on black background

Tenths: Black on white background

1.3 Dielectric strength:

| | |
|-----------------------|----------------------|
| Voltage | — 200 volts rms |
| Frequency | — 60 Hz |
| Potential | — ac |
| Points of application | — Terminals and case |

1.4 Weight. 0.60 lbs. maximum

Example:

Note: Specify terminal configuration; wire lead (blade) or terminal block (stud).

- a. power consumption requirement was removed, had been “Not applicable”.
- b. Para. 1.5 – start time requirement added.
- c. Para. 1.7 – tolerance data revised.
- d. Para. 1.8 – paragraph title changed from “Part number”.

Preparing activity:
DLA-GS1
(Project 6645-2008-002)

Reviewers:
Army – AT, CR
Navy – AS, SA, MC, EC
Air Force – 11

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