

INCH-POUND

MIL-DTL-3971/2D
 24 January 2001
 SUPERSEDING
 MIL-M-3971/2C
 13 December 1985

DETAIL SPECIFICATION SHEET

METERS, TIME TOTALIZING, NON-HERMETICALLY SEALED,
 ELECTRICAL: TYPE II, 120V, 60CPS AND 120V, 400CPS
 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 requirements for procuring meters described herein shall consist of this
 document and the issue in effect of MIL-DTL-3971.

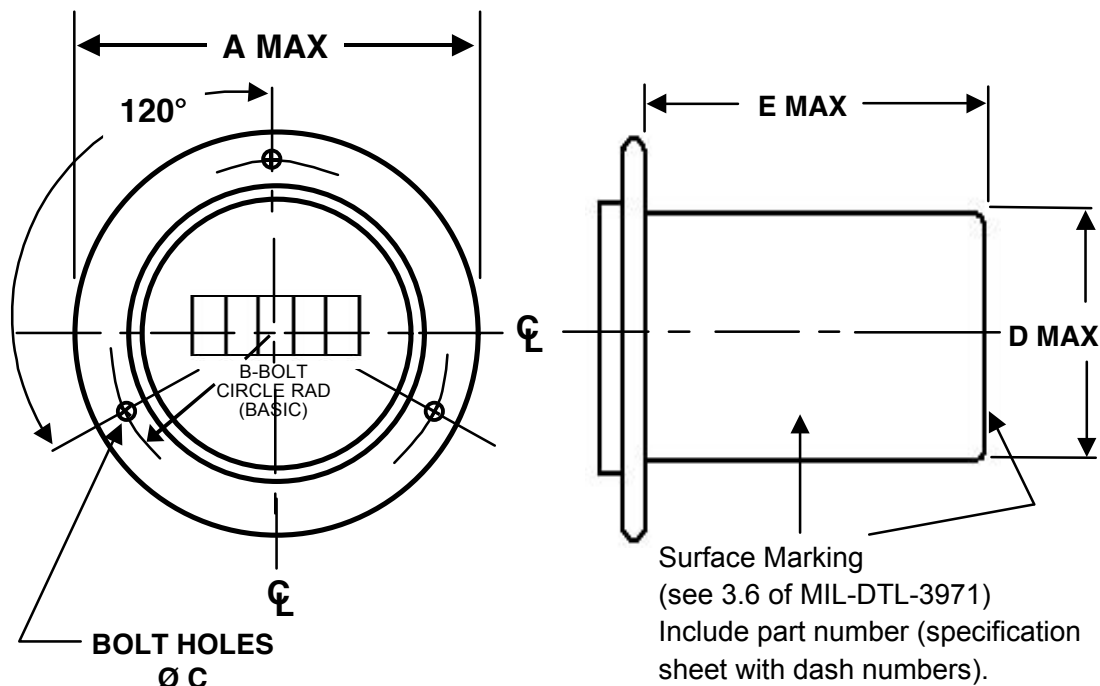


FIGURE 1. Meter with 3 hole flange.

AMSC N/A

FSC 6645

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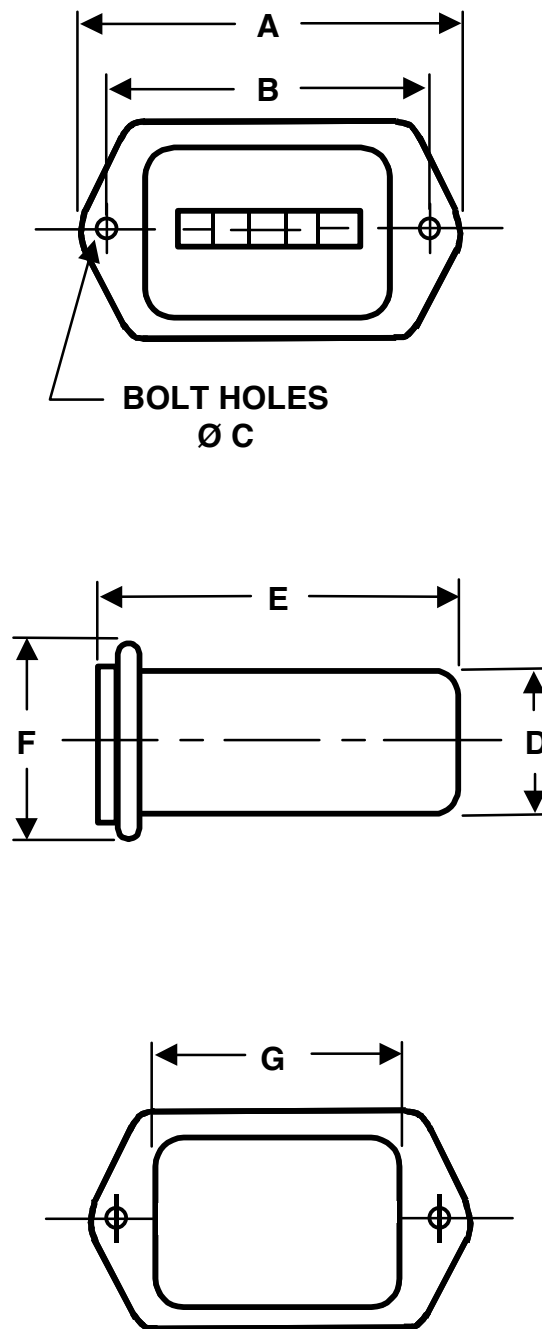


FIGURE 2. Meter with 2 hole flange.

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TABLE I. Specification data for type II meters.

DASH NO.	FIG	A	B	C	D	E	F	G	Grade	Hz	Range	Readout
1	1	2.695	1.220	.125	2.210	3.00	—	—	A	60	100,000	99999.9
2	1	3.500	1.580	.150	2.625	3.00	—	—	A	60	100,000	99999.9
3	1	2.875	1.265	.150	2.210	3.00	—	—	A	400	10,000	9999.9
4	1	3.500	1.580	.150	2.625	3.00	—	—	A	400	10,000	9999.9
5	1	2.695	1.220	.125	2.210	3.00	—	—	B	60	100,000	99999.9
6	1	3.500	1.580	.150	2.625	3.00	—	—	B	60	100,000	99999.9
7	1	2.875	1.265	.150	2.210	3.00	—	—	B	400	10,000	9999.9
8	1	3.500	1.580	.150	2.625	3.00	—	—	B	400	10,000	9999.9
9	2	2.120	1.750	.045	.936	1.950	1.020	1.450	A	60	100,000	99999.9
10	2	2.120	1.750	.045	.936	1.950	1.020	1.450	B	60	100,000	99999.9

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 Power consumption. Not applicable.

1.4 Dielectric strength. Voltage — Dash numbers 1,2,5,6,9 & 10 — 1000 volts rms
— Dash numbers 3,4, 7 & 8 — 500 volts rms

Frequency — 60 Hz

Potential — ac

Points of application — Terminals and case

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1.5 Weight. 1.00 lb. maximum.

1.6 Starting. Energize for 60 seconds at +22°C ($\pm 2^\circ\text{C}$), de-energize for 180 seconds, repeat 5 times. The meter shall start within 10 seconds.

1.7 Stopping. The meter shall stop within 120 seconds after being de-energized.

1.8 Power supply tolerance. 60 Hz meters – one-half hour at 115 volts, 50 Hz

one-half hour at 128 volts, 70 Hz

400 Hz meters – one-half hour at 115 volts, 300 Hz

one-half hour at 128 volts, 500 Hz

1.9 Part number. The part number consists of the basic number of this specification sheet and a dash number taken from table I.

Example:

		<u>M3971/2-1</u>
Basic number	_____	
Specification sheet number	_____	
Dash number from Table I	_____	

Custodians:

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