



1949

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VACUUM-GAUGE TUBE

HARD-GLASS BULB, IONIZATION TYPE

DATA

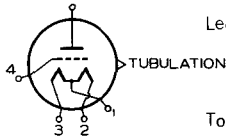
General:

| | |
|--|--|
| Filament, Tungsten* | |
| Voltage (Approx.) | 5 ac or dc volts |
| Current (Approx.) | 3.5 amp |
| Maximum Tube Length (Including tubulation) | 11-1/2" |
| Maximum Tube Radius | 2-3/16" |
| Maximum Bulb Length | 5-1/8" |
| Maximum Bulb Diameter | 2-1/16" |
| Bulb | T-16 |
| Tubulation | 1/2" Diameter Hard Glass, Corning Code 772 Nonex |
| Operating Position | Vertical with tubulation up or down; Horizontal, with stem press in vertical plane |
| Terminal Arrangement | See Outline Drawing |
| Terminal Lead Connections: | |

Lead 1 - Common
Lead to
Filaments

Lead 2 - Filament

Lead 3 - Filament
(Spare)



Lead 4 - Grid

Top Lead - Plate

Maximum Ratings, Absolute Values:

| | | | |
|---|------------|----------|---|
| FILAMENT VOLTAGE | 6.5 max. | volts | ← |
| DC PLATE VOLTAGE DURING OPERATION | -100 max. | volts | |
| DC GRID VOLTAGE DURING OPERATION | +200 max. | volts | |
| VOLTAGE ON GRID & PLATE TIED TOGETHER DURING DEGASSING (DC OR PEAK AC) | 650 max. | volts | |
| GRID & PLATE DISSIPATION (TOTAL) DURING DEGASSING | 150 max. | watts | |
| AMBIENT TEMPERATURE DURING OPERATION | 100 max. | °C | |
| GAS PRESSURE | 0.001 max. | mm of Hg | |

Typical Degassing Conditions:

Grid Connected to Plate

| | | | |
|-----------------------------------|---------|--------|-------|
| Filament Voltage (AC or DC) | 6 | 6 | volts |
| Grid & Plate Voltage | 350 rms | 500 dc | volts |
| Grid & Plate Current (Average) | 100 | 150 | ma |

Typical Operation:

| | | | | |
|------------------|-------|-------|-------|-------|
| DC Plate Voltage | -22.5 | -22.5 | -22.5 | volts |
|------------------|-------|-------|-------|-------|

* The 1949 contains two filaments, one of which is a spare. Values shown are for either filament operated alone. The filament voltage should be kept as low as possible during degassing because use of a low filament voltage materially increases filament life.

← Indicates a change

MARCH 1, 1954

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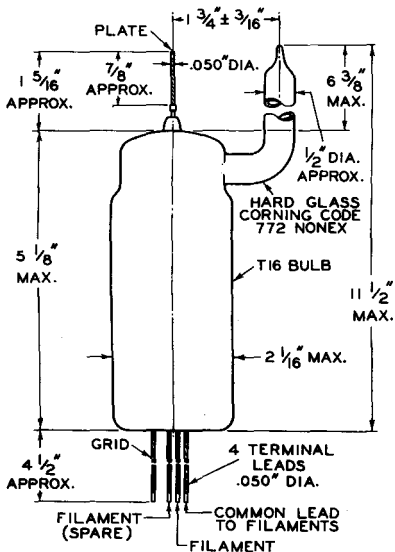
VACUUM-GAUGE TUBE

| | | | | |
|---------------------------|-----|------|------|------------------------------------|
| DC Grid Voltage | +80 | +110 | +160 | volt. |
| Grid Current | 10 | 10 | 10 | ma |
| Sensitivity | 80 | 110 | 140 | $\mu\text{a}/\text{micron}^\Delta$ |

Calibration:

See curve on following sheet.

Δ 1 micron = 0.001 mm of mercury.



92CS-6817

MARCH 1, 1954

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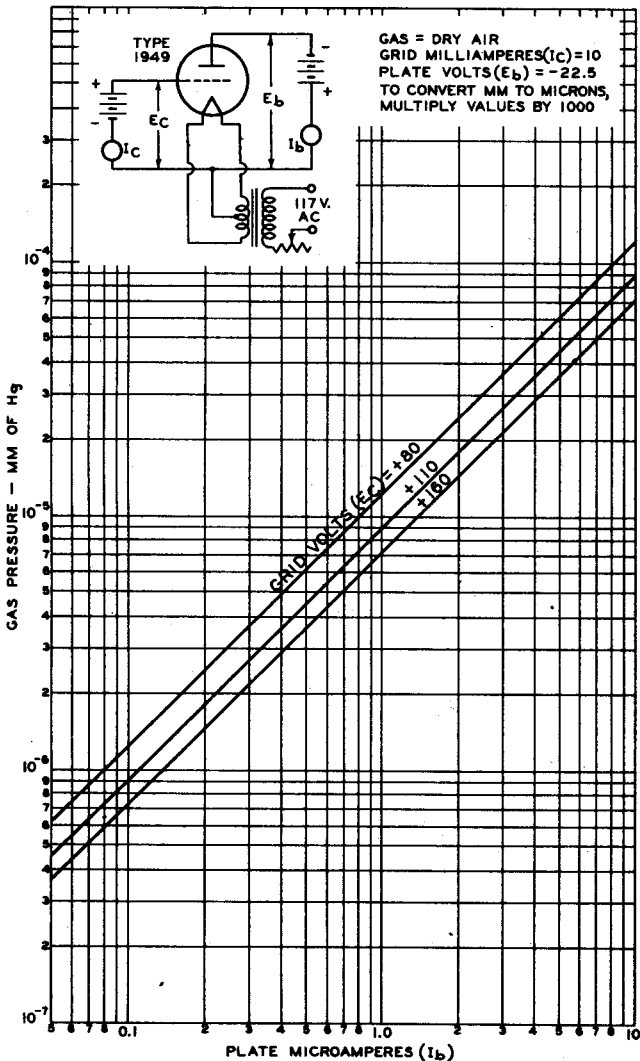
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CALIBRATION CURVES



MAR. 11, 1947

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