



1947

# 1947 VACUUM-GAUGE TUBE

PIRANI TYPE

DATA**General:**

Filament, Platinum Iridium:

Voltage (Approx.) . . . . . 10 . . . . . dc volts

Current (Varies with

Gas Pressure). . . . . 70-100 . . . . . ma.

Resistance between base

pins No.1 &amp; No.2 un-

der vacuum better than

3 x 10<sup>-5</sup> mm of mercury 135.8 . . . . . ohms

Maximum Overall Length (including tubulation). . . . . 7-9/16"

Maximum Diameter . . . . . 1-3/16"

Bulb . . . . . T-9

Tubulation . . . . . 7/32" Diameter Soft Glass,

Corning Code 001 Lead

Mounting Position. . . . . Any

Base . . . . . Small-Shell Small 4-Pin

## BOTTOM VIEW

Pin 1 - Filament

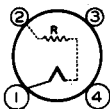
Pin 2 - Filament

Pin 3 - No Connection

Pin 4 - Internal

Connection -

Do Not Use



R - Series Filament-  
Calibrating  
Resistor in  
base of tube

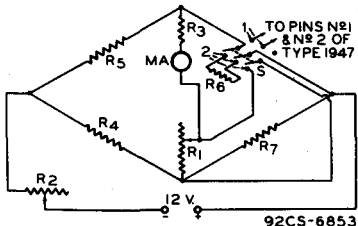
**Maximum Ratings, Absolute Values:**

FILAMENT VOLTAGE . . . . . 16 max. volts

**Calibration for 1947 in Accompanying Circuit:**

See curve on following sheet.

## PIRANI GAUGE BRIDGE CIRCUIT



R1: 50 Ohms    R3 + METER: 15 Ohms    R6: 120.7 Ohms  
R2: 25 Ohms    R4 R5: 10 Ohms each    R7: 135.8 Ohms

STEP 1: With switch S in position 2, adjust R2 so that meter reads 2.5 milliamperes.

STEP 2: With switch S in position 1, and with dry air at atmospheric pressure in the 1947, adjust R1 so that meter reads 5.0 milliamperes.

STEP 3: With no further adjustments and with switch S in position 1, proceed to use gauge.

JUNE 20, 1947

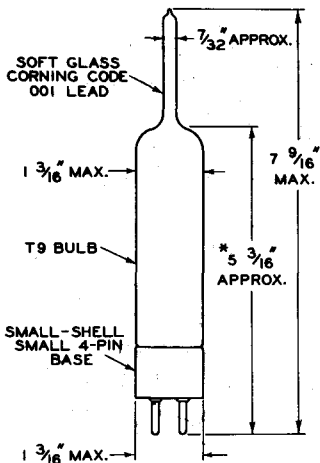
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TENTATIVE DATA

1947



# 1947 VACUUM-GAUGE TUBE



\* MEASURED FROM END OF BASE PINS TO BULB-TOP LINE AS DETERMINED BY RING GAUGE OF  $\frac{1}{2}$ " I.D.

92CS-6816

JUNE 20, 1947

TUBE DEPARTMENT  
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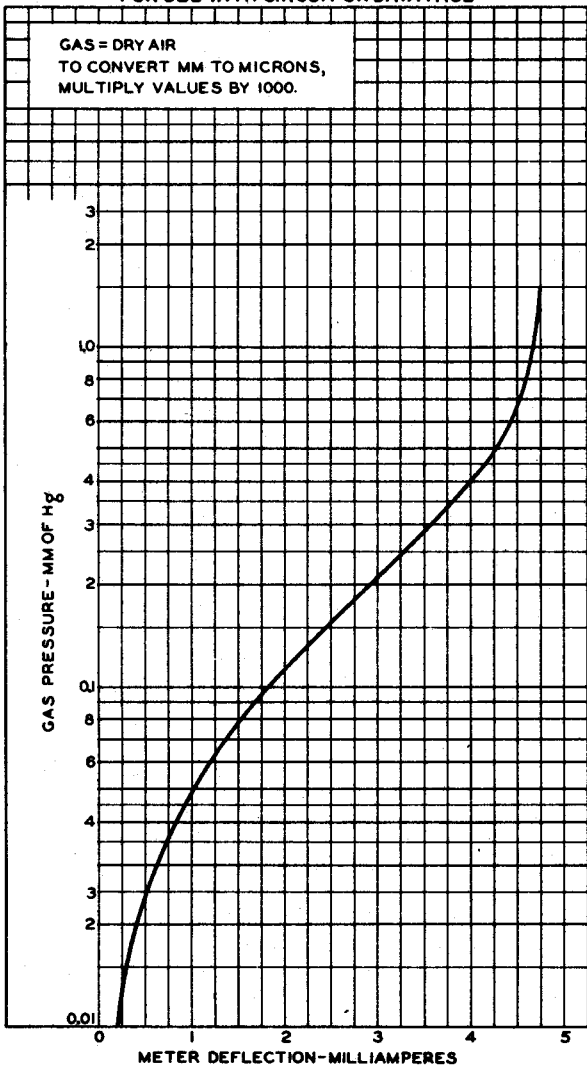
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### CALIBRATION CURVE FOR USE WITH CIRCUIT ON DATA PAGE



MARCH 10, 1947

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