



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 & No.2 un-

der vacuum better than

 3×10^{-5} 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

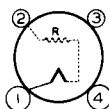
BOTTOM VIEW

Pin 1 - Filament

Pin 2 - Filament

Pin 3 - No Connection

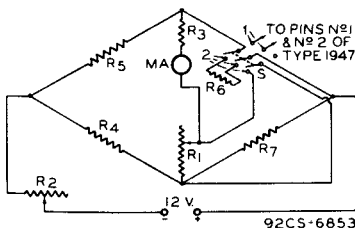
Pin 4 - Internal

Connection -
Do Not UseR - 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

TUBE DEPARTMENT

TENTATIVE DATA

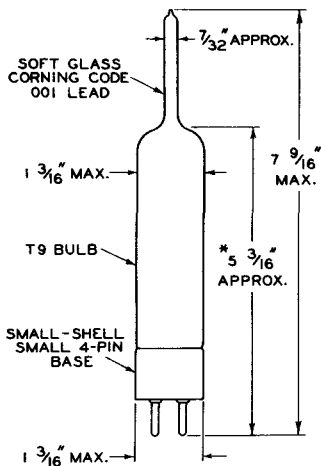
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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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

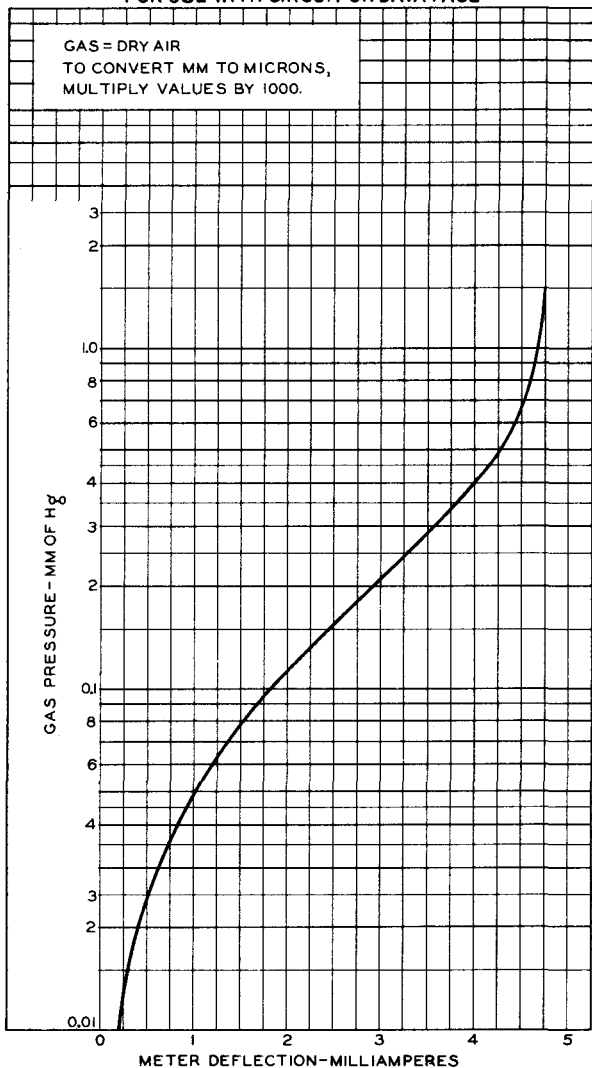


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CALIBRATION CURVE FOR USE WITH CIRCUIT ON DATA PAGE

GAS = DRY AIR
TO CONVERT MM TO MICRONS,
MULTIPLY VALUES BY 1000.



MARCH 10, 1947

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92CM-6849