1947
VACUUM-GAUGE TUBE

PIRANI TYPE

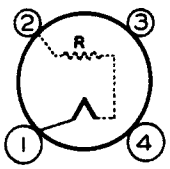
DATA

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 under 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 Use



R – Series Filament-- Calibrating Resistor in base of tube

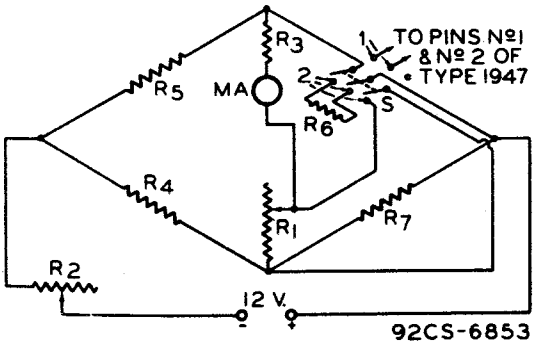
Maximum Ratings, ***Absolute Values*****:**

FILAMENT VOLTAGE . . . . . 16 max. volts

Calibration for 1947 in Accompanying Circuit:

See curve on following sheet.

PIRANI GAUGE BRIDGE CIRCUIT



92CS-6853

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.

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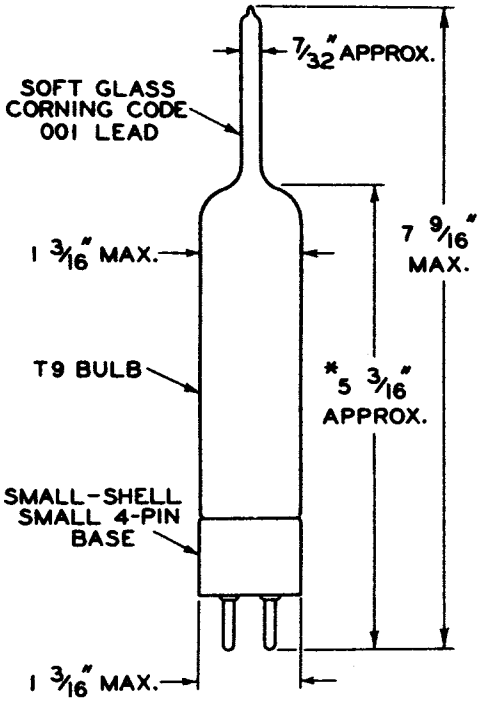

*MEASURED FROM END OF BASE PINS TO BULB-TOP LINE AS DETERMINED BY RING GAUGE OF 1/2" I.D.

92CS-6816

RCA

1947

CALIBRATION CURVE

FOR USE WITH CIRCUIT ON DATA PAGE