

WESTINGHOUSE ELECTRIC CORPORATION
ELECTRON TUBE
TUBE TYPE 5966

The type 5966 tube is a special triode designed for ionization vacuum gauge service. It can be used to measure pressures as low as 10^{-10} mm Hg. The cathode is a pure tungsten filament.

ELECTRICAL DATA (Approximate)

Filament and Voltage* 6 ac or dc volts
 Filament and current 2.5 amperes

MECHANICAL DATA

Outline Drawing Number 60150
 Type of Cooling Air
 Maximum overall length
 (Including tubulation) 11-1/2 inches
 Maximum Tube Radius 2-3/4 inches
 Maximum Bulb Diameter 2-1/16 inches

Bulb Glass Nonex
 Tubulation diameter, (Approx.) 1/2 inch
 Operating Position Vertical

MAXIMUM RATINGS

Ion Collector Voltage -100 Volts
 Grid Voltage +500 Volts
 Ambient Temperature 100° Centigrade
 Maximum Gas Pressure 10^{-3} mm Hg.

TYPICAL OPERATION

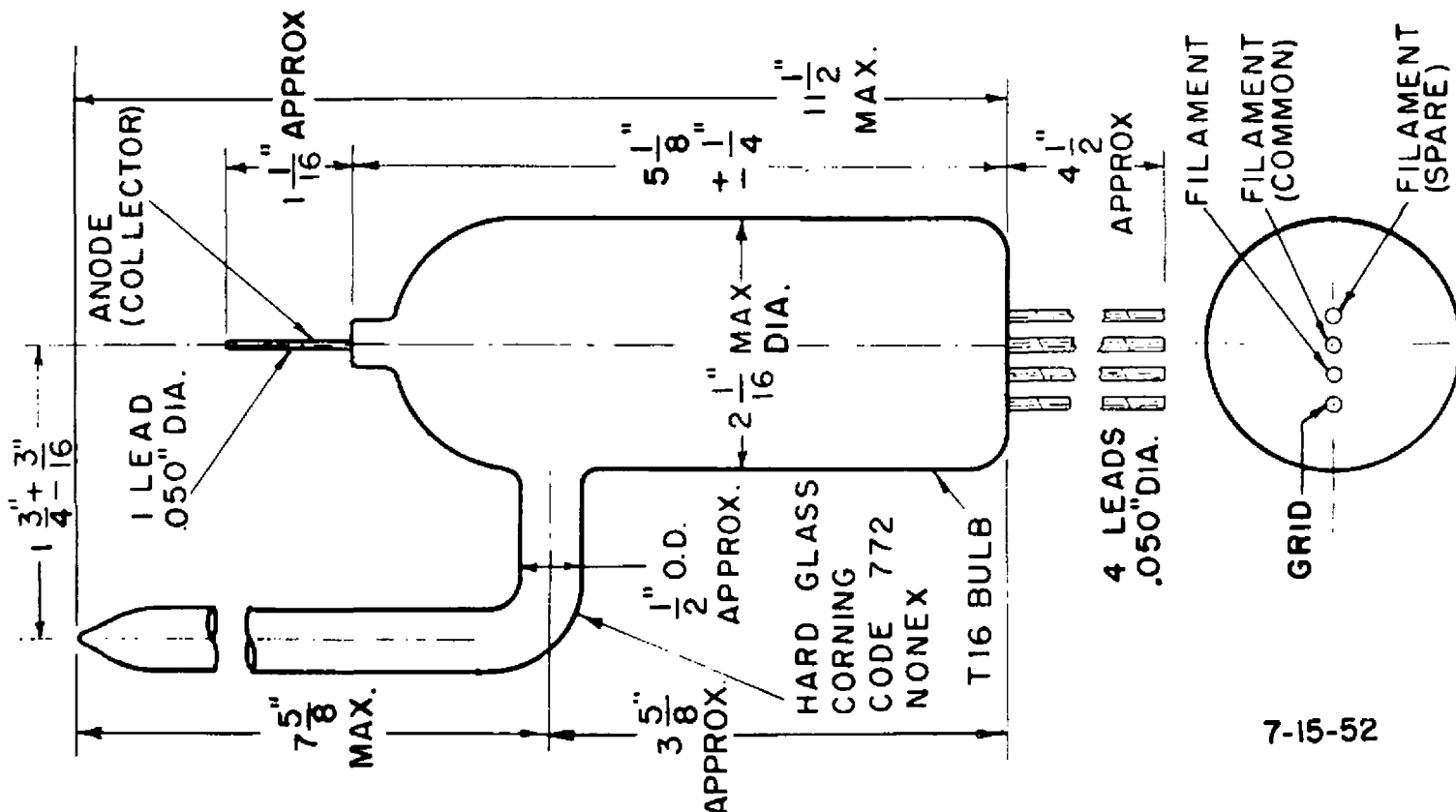
Ion Collector Voltage -30 Volts
 Grid Voltage +150 Volts
 Grid Current 10 Milliampères
 Sensitivity 1 μ amp/ 10^{-5} mm Hg.

CONDITIONS FOR OUTGASSING ELEMENTS

Grid Voltage +500 Volts Max.
 Ion Collector Tied To Grid
 Filament**
 Series Connection 15 Volts Max.
 Parallel Connection 7.5 Volts Max.
 Outgas Power on Grid
 & Ion Collector 100 Watts Max.

* Two Filaments are supplied, one of which is a spare.

** To outgas the ionization gauge, the two filaments may be connected either in series or parallel. Connect ion collector to grid and attach to +500 volts dc. Adjust emission current by raising filament voltage to give the desired operating condition to outgas the elements.



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