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 Code 772
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

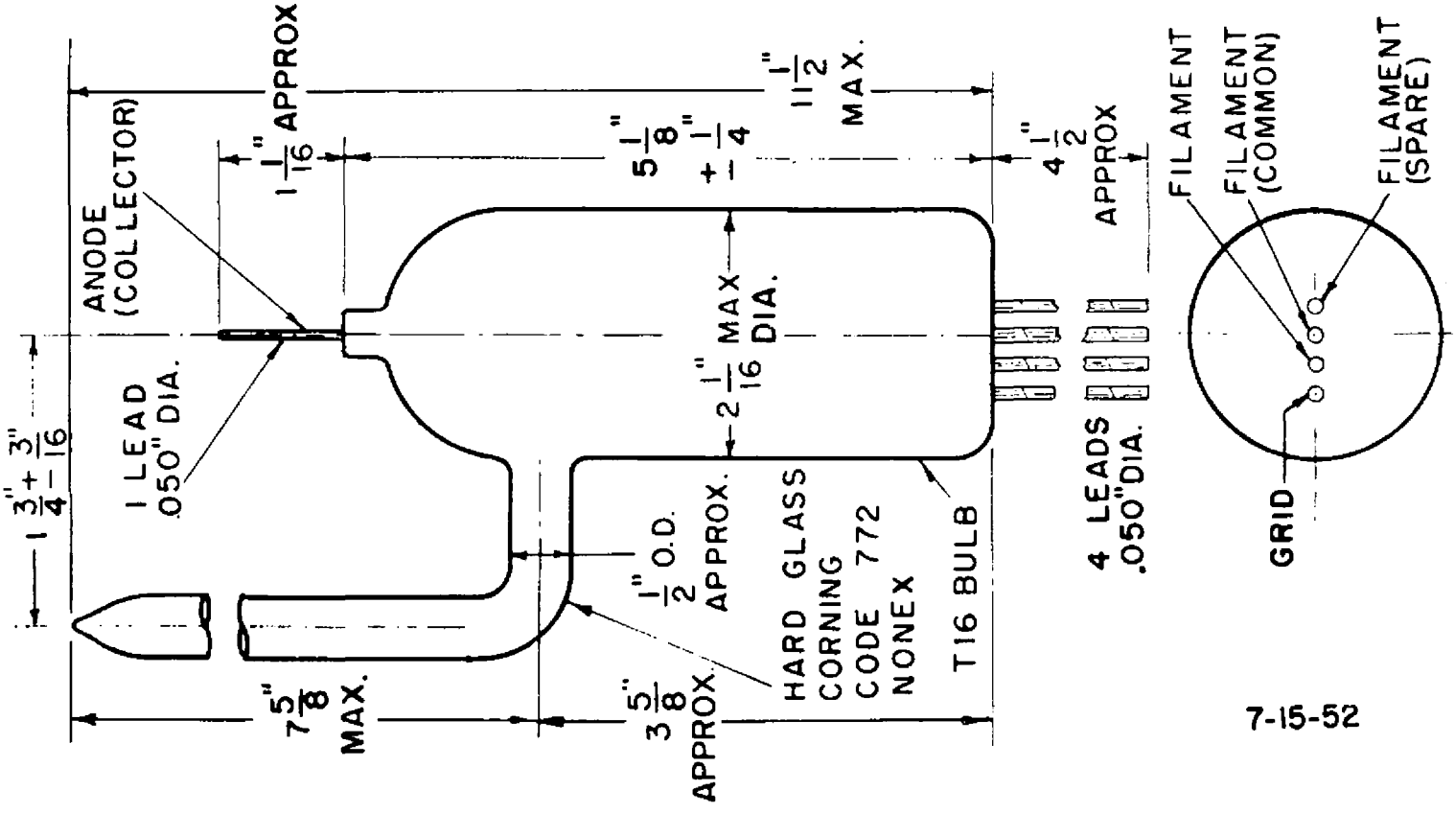
Ion Collector Voltage	-30 Volts
Grid Voltage	+150 Volts
Grid Current	10 Milliamperes
Sensitivity	1 μ amp/10^{-5} mm Hg.

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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