

# TYPE 904V

# MULLARD HIGH MAGNIFICATION DETECTOR

### OPERATING DATA.

Heater Voltage ... 4.0 V.  
 Heater Current ... 1.0 A.  
 Max. Anode Voltage ... 200 V.

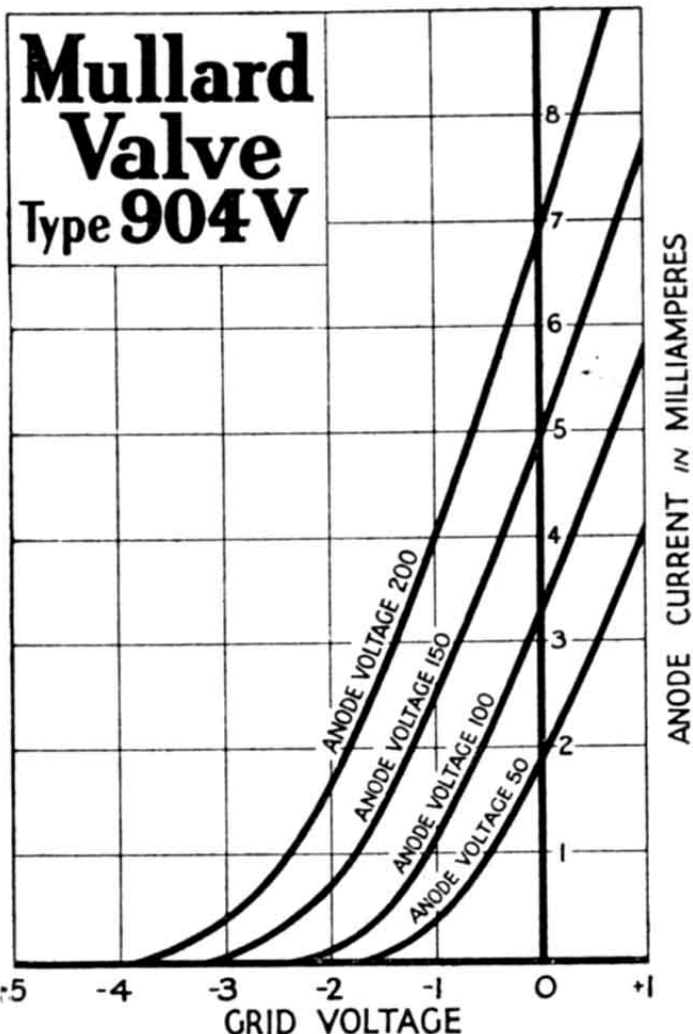
### CHARACTERISTICS.

(1) At Anode volts 100; Grid volts Zero.  
 Anode Impedance ... 34,000 ohms.  
 Amplification Factor ... 75  
 Mutual Conductance 2.2 mA./V.  
 (2) At Anode volts 200; Grid volts Zero.  
 Mutual Conductance 3.0 mA./V.

**APPLICATION. As detector.** The high amplification factor of the 904V. renders it particularly suitable for use as a detector in receivers having no high frequency amplifying stages. It should be operated at an anode voltage of 150 to 200 volts. The grid condenser should be .0001 to .0003 mfd. and the grid leak of 1 megohm should be returned to the cathode.

**As L.F. Amplifier.** The 904V. may also be used as a low frequency amplifier with a gramophone pick-up. The anode voltage should be 200 V., with a grid bias of -2.0 V. If followed by resistance-capacity coupling the anode resistance should have a value of 80,000 ohms. The 904V. incorporates the latest constructional improvements, including the Mullard Rigid Unit Construction and the Mullard Floating Heater. This valve can be supplied with either metallised or clear bulb.

This bias can be obtained automatically by the arrangements shown in diagram No. 3 on page 56; the value of the biasing resistance should be approximately 1,000 ohms.



### GRID BIAS.

When used as a low frequency amplifier, grid bias should be applied according to the following table :-

Anode Voltage	Approx. Neg. Grid Bias Voltage	Approx. Anode Current (mA.)
150	1.5	1.4
200	2.0	1.8

**PRICE 13/6**



# Mullard

**THE MASTER VALVE**

