

# TYPE MULLARD H.L.20 INDIRECTLY HEATED D.C. MAINS DETECTOR

## OPERATING DATA.

Heater Current ...	0.18 A.
Heater Voltage ...	20.0 V.
Max. Anode Voltage ...	200 V.

## CHARACTERISTICS.

(At Anode volts 100; Grid volts Zero.)

Anode Impedance ...	14,000 ohms.
Amplification Factor ...	35
Mutual Conductance ...	2.5 mA./V.

**APPLICATION.** As detector in D.C. mains receivers. Operated at an anode voltage of 200 V, the grid condenser should be of .0001 mfd. and the grid leak of .5 to 1.0 megohms. It is advisable to employ resistance-coupled transformer coupling, the recommended value of the anode resistance being 25,000 ohms.

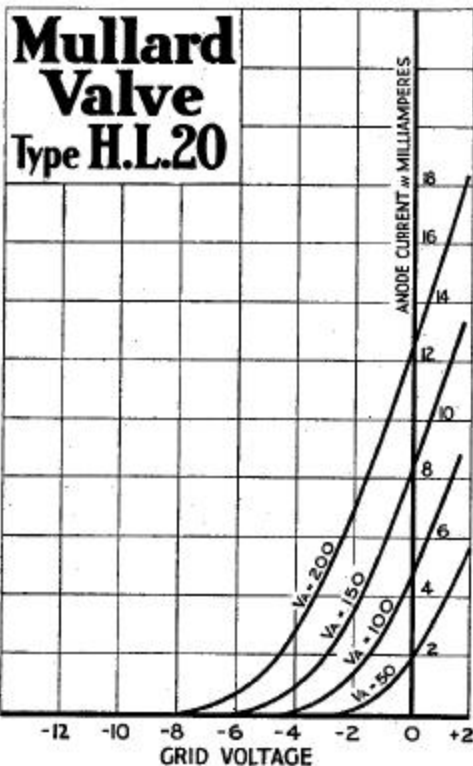
**As L. F. Amplifier.** Operated at an anode voltage of 200V., and with correct grid bias, the H.L.20 will handle large pick-up voltages and give high effective amplification. This valve can be supplied with metallised bulb only.

## GRID BIAS.

When used as an L.F. amplifier negative grid bias should be applied according to the following table:—

For automatic bias, the value of the biasing resistance should be 1,000 ohms.

**PRICE 13/6**



Anode Voltage	Approx. Neg. Grid Bias Voltage	Approx. Anode Current (mA.)
150	2.5	2.5
200	3.5	3.5



**Mullard**  
**THE MASTER VALVE**

