

TYPE MULLARD PEN.20 INDIRECTLY HEATED D.C. MAINS OUTPUT PENTODE

OPERATING DATA.

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

Approx. Auxiliary Grid Current (at 200V.) ... 10 mA.
Optimum Load ... 8,000 ohms.

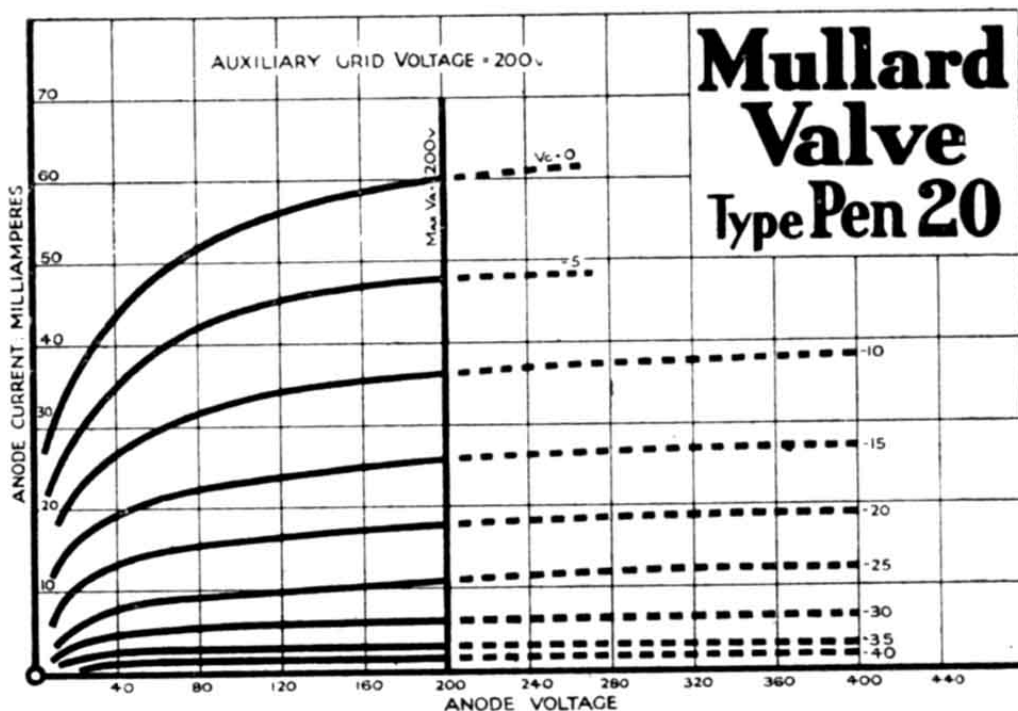
CHARACTERISTICS.

(At Anode volts 100; Auxiliary Grid volts 100; Control Grid volts Zero.)
Mutual Conductance ... 2.5 mA./V.

APPLICATION. As **output valve** in D.C. mains receivers. Owing to its high effective amplification the PEN.20 will develop sufficient power to operate the average moving coil speaker even when used in receivers having no other low frequency stage.

GRID BIAS.

When the PEN. 20 is operated at an anode voltage of 200, negative grid bias of approximately 15 volts should be applied, by the inclusion of a resistance in the cathode lead. The biasing resistance should be provided by a fixed resistor of 350 ohms and a variable resistor of 250 ohms which should be adjusted to maintain the anode current at a value not exceeding 25 mA.



BASE. Standard 7-pin. For connections see page 63.

PRICE 18/6



Mullard

THE MASTER VALVE

