

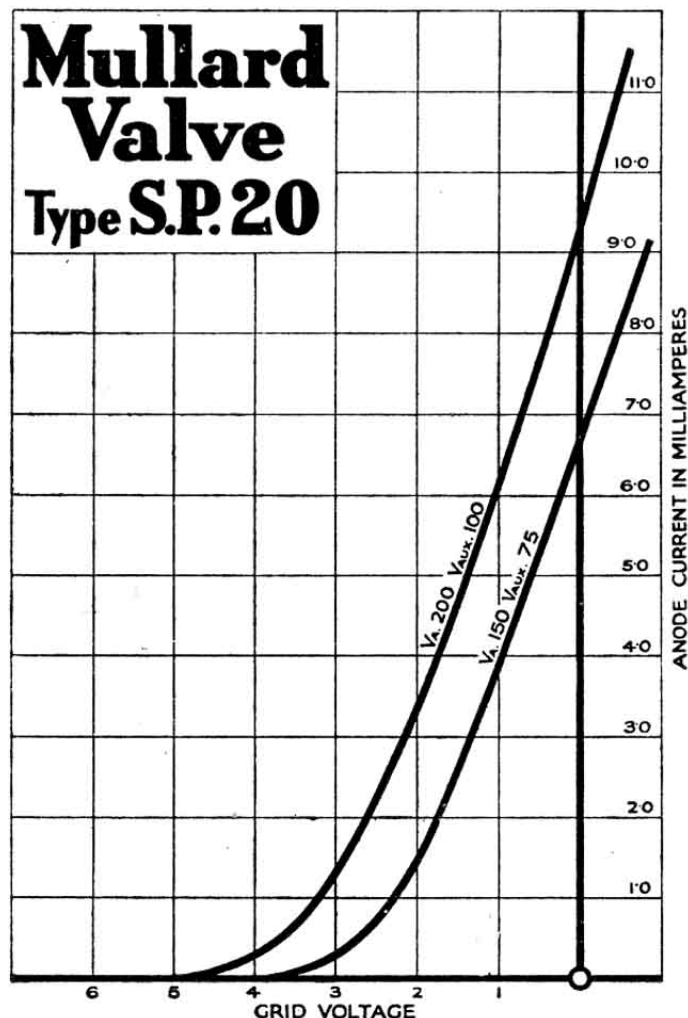
MULLARD INDIRECTLY HEATED D.C. MAINS SCREENED PENTODE TYPE S.P.20

OPERATING DATA.

Heater Current	...	...	0.18 A.
Heater Voltage	...	...	20.0 V.
Max. Anode Voltage	...	...	200 V.
Max. Auxiliary Grid Voltage	...	...	100 V.

CHARACTERISTICS.

- (1) At Anode volts 200; Auxiliary Grid volts 100; Control Grid volts Zero.
Mutual Conductance 3.5 mA./V.
- (2) At Anode volts 150; Auxiliary Grid volts 75; Control Grid volts Zero.
Mutual Conductance 2.9 mA./V.



GRID BIAS.

When used as an amplifier negative grid bias of $1\frac{1}{2}$ volts should be applied to the S.P.20. This can be obtained automatically by including a resistance of 250 ohms in the cathode lead.

APPLICATION.

- (1) **As H.F. amplifier** in D.C. mains receivers, having pre-high frequency volume control.
- (2) **As first detector** or as frequency changer in D.C. mains super-heterodyne receivers.
- (3) **As normal speech detector.**

AUXILIARY GRID VOLTAGE.

The Auxiliary Grid Voltage of approximately 100 volts (for Anode Volts 200) can be obtained by means of a fixed tapping potentiometer from the main anode supply, the value of the resistance between H.T. positive and the screen being 14,500 ohms and between the screen and H.T. negative 20,000 ohms. This valve can be supplied with either clear or metalised bulb.

PRICE 17/6



Mullard
THE MASTER VALVE

