

MAZDA

P 220A

Power Valve



RATING.

Filament Voltage	...	...	...	...	2.0
Filament Amps.	...	...	...	...	0.2
Maximum Anode Voltage	...	...	...	...	150
Maximum Anode Current (mA)	...	...	...	...	17
*Mutual A.C. Conductance (mA/Volt)	...	...	...	...	3.5
*Amplification Factor	...	...	...	...	6.5
*Anode A.C. Resistance (ohms)	...	...	...	...	1,850

* at $E_a=100$; $E_g=0$.

DIMENSIONS.

Maximum overall length (including pins)	105 m.m.
Maximum diameter	45 m.m.

PRICE ~~13/6~~ 12/-

GENERAL.

The Mazda P 220A Valve is a 3-electrode, power-amplifying valve, capable of giving a very high power output without distortion. Owing to its very low impedance, coupled with a high amplification factor, the P 220A will give very great sensitivity, with adequate output for operating a moving-coil speaker.

The valve is designed for direct operation from a 2-volt accumulator. A filament rheostat is unnecessary and should not be used.

APPLICATION.

Those who want a 2-volt valve, with an economical filament current consumption, capable of delivering a large power output, should employ this valve in the last stage of their receivers.



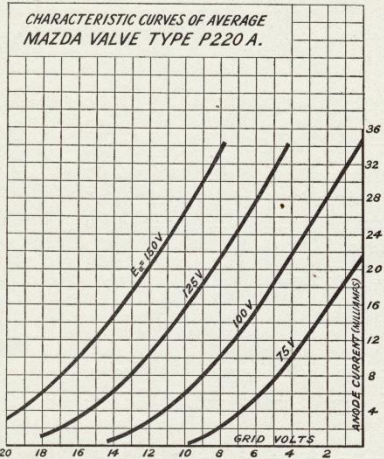
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GRID BIAS.

Grid bias must always be employed with this valve, and this may be obtained either by dry batteries or by the semi-automatic system.

The optimum bias for any given anode voltage may be found from the special curves. These curves also give the Optimum Load Resistance and Maximum U.P.O., as well as the average anode feed current for any given anode voltage. In no case should the anode current be allowed to exceed 17 mA. When the P 220A is used in a resistance-capacity coupled amplifier the grid circuit resistance should be limited to 1 megohm.

