

MAZDA

P 220 Power Valve



RATING.

Filament Voltage	...	...	...	...	2.0
Filament Amps.	...	...	...	...	0.2
Maximum Anode Voltage	...	...	...	...	150
Maximum Anode Current (mA)	...	...	...	...	10
*Mutual A.C. Conductance (mA/Volt)	...	...	...	...	3.4
*Amplification Factor	...	...	...	...	12.5
*Anode A.C. Resistance (ohms)	...	...	...	...	3,700

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

DIMENSIONS.

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

PRICE ~~10/6~~ ~~8/9~~ 7/-

GENERAL.

The Mazda P 220 Valve is a power amplifying valve which has been expressly designed for operating ordinary type loud speakers. Due to its low impedance, coupled with a high amplification factor, the P 220 will give very great sensitivity combined with good quality of reproduction. The valve has a very low anode current consumption, and is strongly recommended for those sets where the consumption is limited to from 5 to 7 milliamps. The P 220 is designed for direct operation from a 2-volt accumulator. A filament rheostat is unnecessary, but may be used if desired.

APPLICATION.

Those who want a valve with a very economical anode current, coupled with great sensitivity and robust construction, should employ this valve in the last stage of their receiver.



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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 bias system.

The optimum bias for any given anode voltage may be found from the special curves. These curves also give the optimum load resistance as well as the average anode feed current for any given anode voltage. When the P 220 is used in a resistance-capacity coupled amplifier the grid circuit resistance should never exceed 2 megohms.

