

D.C. Mains Pentode Valve



RATING.

Filament Volts (Approx.)	 35	
Filament Amps	1	 0.1
Maximum Anode Voltage		 250
Maximum Screen Voltage		 200
*Mutual A.C. Conductance (mA/V)	 2.5

*at Ea = 100; Es = 100; Eg = 0.

DIMENSIONS.

Maximum overall lengtl		ngth	h		132 m.m.	
	Maximum diameter				58 m.m.	

PRICE 204

GENERAL.

The Mazda DC 2/Pen is an indirectly-heated, super-power, pentode for D.C. mains operation. Mazda D.C. mains valves are operated with their cathodes connected in parallel and their heaters in series, the latter being connected to the supply mains through a voltage dropping resistance. The screen connection is made to the terminal at the side of the base.

APPLICATION.

The DC 2/Pen will satisfactorily operate a moving-coil or power cone speaker at full volume. The optimum load impedance is given in the table overleaf, and the output transformer ratio should be chosen accordingly. With the B.T.H. Senior R.K. Speaker a ratio of 25:1 will be found suitable, and with the Minor R.K. Speaker

The rise of load impedance with frequency should be limited by connecting a condenser of 0.01 mfd. in series with a resistance of 10,000 ohms across the primary of the transformer.

The DC 2/Pen may also be used as a power-grid detector with the loud speaker connected directly in its anode circuit. Under these conditions the anode current should not exceed 40 mA.



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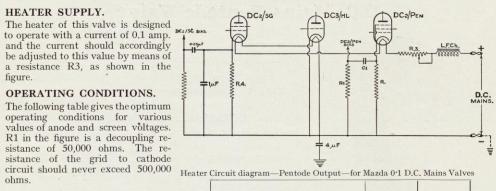
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HEATER SUPPLY.

The heater of this valve is designed to operate with a current of 0.1 amp. and the current should accordingly be adjusted to this value by means of a resistance R3, as shown in the figure.

OPERATING CONDITIONS.



Anode Volts				200	250
Screen Volts				200	200
Anode Current				30	30
Grid Bias (Volt	s)			-10	-10
Self-bias Resist	ance (Ohms)		300	300
Optimum Load	Resist	ance(O	hms)	9,000	10,000

