

MAZDA

DC2/SG.VM.

D.C. Mains Screened Grid Valve



RATING.

Filament Voltage (Approx.)	...	...	20
Filament Amps.	...	...	0.1
Maximum Anode Voltage	...	...	200
Maximum Screen Voltage	...	...	100
†Amplification Factor	...	...	1,200
Mutual A.C. Conductance (mA/V)	†1.5	...	*.005
	† at $E_a=200$; $E_s=60$; $E_g=-1.5$		
	* at $E_a=200$; $E_s=60$; $E_g=-30$		

INTER-ELECTRODE CAPACITIES.

Anode to Grid	...	...	0.0015 $\mu\mu\text{F}$.
Anode to Cathode	...	...	11.0 $\mu\mu\text{F}$.
Grid to Cathode	...	...	9.0 $\mu\mu\text{F}$.

DIMENSIONS.

Maximum overall length	...	...	130 m.m.
Maximum diameter	...	...	45 m.m.

PRICE 19/-

GENERAL.

In designing this valve cross modulation and amplitude rise have been so reduced that a relatively large signal input can be handled without distortion.

The metal coating, which greatly reduces anode and control-grid capacity and simplifies screening, is connected to the centre (cathode) pin and should be earthed through a non-inductive condenser.

APPLICATION.

The DC 2/SG VM is a very stable H.F. amplifier with tuned transformer coupling. It is also suitable in the first detector stage of super-heterodyne receivers where it is useful for controlling volume.

The recommended method of deriving screen and bias voltages is given in the diagram. The values of resistances required at an anode voltage of 200 are as follows:—

	R1	R2	R3	R4
One H.F. Stage	25,000	20,000	150	15,000
Two H.F. Stages	12,500	10,000	75	7,500



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The screen grid should be earthed through a non-inductive condenser.
 The heaters of these 0.1 valves should be connected in series and voltage drop from mains obtained by means of resistance.

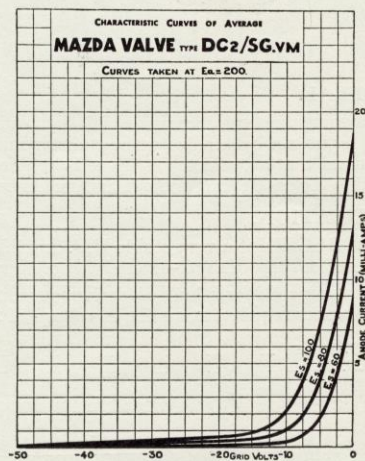
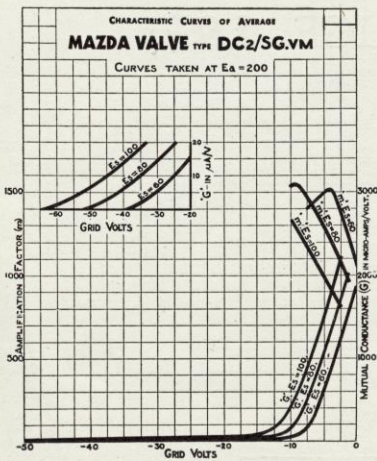
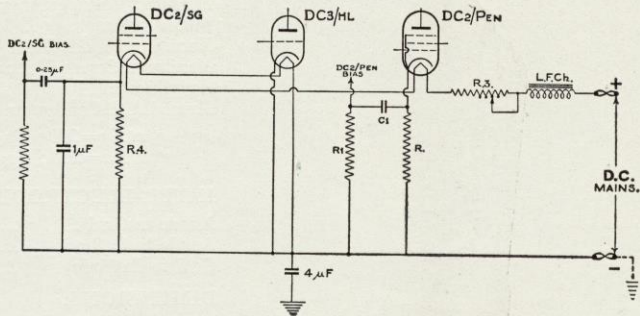
IMPORTANT.

The resistance of the grid circuit should not exceed 100,000 ohms.

In all cases where the cathode is not directly connected to earth potential, a non-inductive condenser should be provided between it and earth. A non-inductive condenser must also be connected between the screen grid and earth.

CURVES.

The curves below indicate the performance of an average valve. The amplification factor and mutual conductance were obtained dynamically with a grid bias of -1.5 volts.



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