

## POWER PENTODE TYPE PEN.A.1

The BRIMAR Pen.A.1 is a directly heated power pentode. The valve is fully loaded, with a grid swing of 11 volts R.M.S.

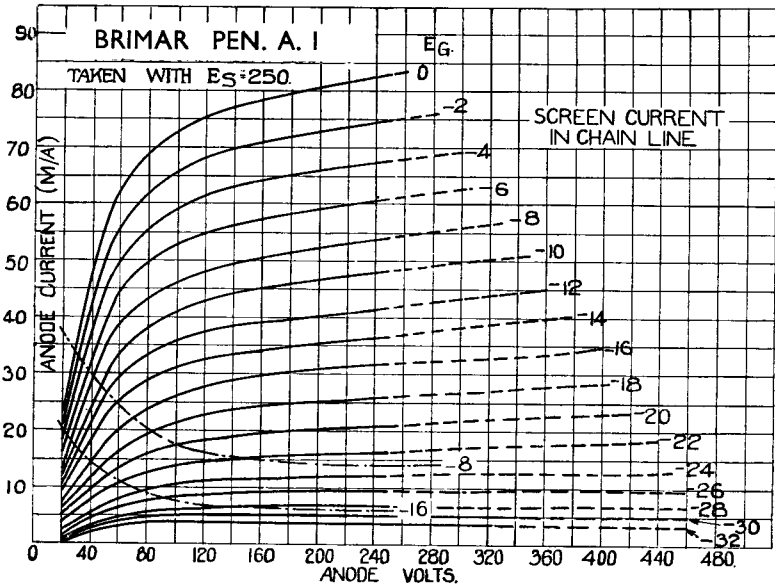
The output being sufficient to operate the average moving coil speaker at considerable volume.

Automatic bias may be obtained by inserting a resistance of approximately 450 ohms between the electrical centre point of filament and H.T. negative.

This should be shunted by a condenser of at least 4 mfd. or a suitable network, in order to utilise the full gain of the valve and preserve the lower register.

# BRIMAR

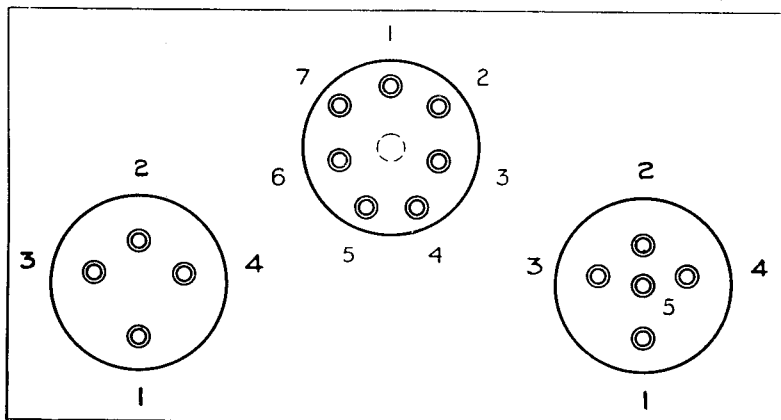
## CHARACTERISTICS



Filament Voltage	...	...	4 volts $\pm$ 5%
Filament Current	...	...	1.0 amp.
Max. Anode Voltage	...	...	250 volts
Max. Screen Voltage	...	...	250 volts
Max. Anode Current	...	...	32mA.
Mutual Conductance	...	...	3.0 mA. per volt
Optimum Load	...	...	8,000 ohms (approx.)

# BRIMAR

## BASE CONNECTIONS OF VALVES



UNDERSIDE VIEW OF BASES  
4-PIN VALVES

TYPE	1	2	3	4
HLB.1, PB.1 ... ..	A	G	F.M	F
R.1, R.2, R.3, 1A.7 ... ..	A1	A2	H	H.C
4037A. ... ..	A	—	F	F

5-PIN VALVES

TYPE	1	2	3	4	5	Top Cap
8A.1, 9A.1 ...	G2	G1	H	H	C.M	—
HLA.2, PA.1 ...	A	G	H	H	C.M	—
PenB.1, PenA.1 ...	A	G1	F	F	G2	—
4039A ...	A	G	H	H	C	—
ID5 ...	A	—	H	H	C	—

7-PIN VALVES

TYPE	1	2	3	4	5	6	7	Top Cap
4D.1 ...	—	—	—	H	H	C	A	G
7A.3, 7D.8, 7D.6, 7A.2, & 7D.3 ...	—	G1	G2	H	H	C	A	—
9D.2 ...	—	A	G3	H	H	C	G2	G1
11A.2, 11D.3	D1	M	D2	H	H	C	A	G1
15A.2, 15D.1	G2	G1	G3.G5	H	H	C	A	G4

A. Anode. G1, G2, G3, G4, 1st, 2nd, 3rd and 4th Grids.  
F. Filament. H. Heater. C. Cathode. D1, D2, Diodes.  
M. Metallising.

## VALVES