

R.F. VARIABLE MU PENTODE TYPE 9A.1

The BRIMAR 9A.1 is an indirectly heated radio frequency pentode valve incorporating a variable mu characteristic. This property eliminates the possibility of cross modulation or modulation distortion occurring when the valve is handling inputs usually associated with the R.F. or I.F. stages of a radio receiver.

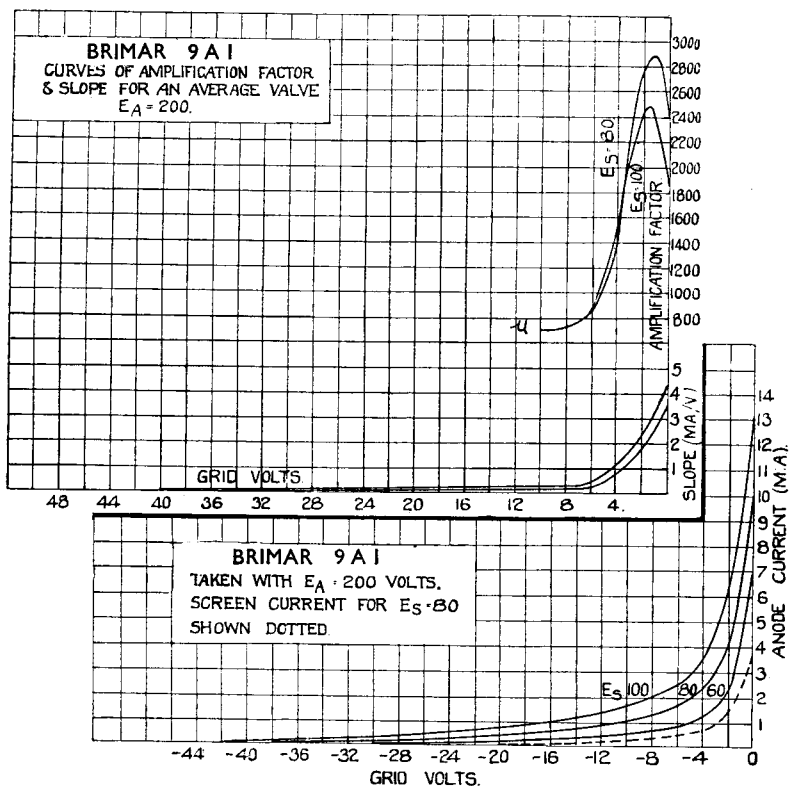
The variable mu characteristic also enables the gain of the valve to be varied over a wide range by the application of a varying control grid voltage, thus rendering the valve particularly suitable for use in receivers employing automatic volume control.

The high mutual conductance at minimum operating grid bias, coupled with the low anode grid leakage capacity, enables extremely high stage gains to be obtained with complete stability.

The valve is fitted with a five-pin base, connections being as shown on page 51.

BRIMAR

CHARACTERISTICS



Heater Voltage	...	...	4.0 volts \pm 5%
Heater Current	...	...	1.0 amp.
Max. Anode Voltage	...	...	250 volts.
Max. Screen Voltage	...	...	100 volts.
Grid Bias Voltage	...	...	-1.5 to -40 volts.
Mutual Conductance	...	...	*4.25 mA. per volt. †0.1 mA. per volt.

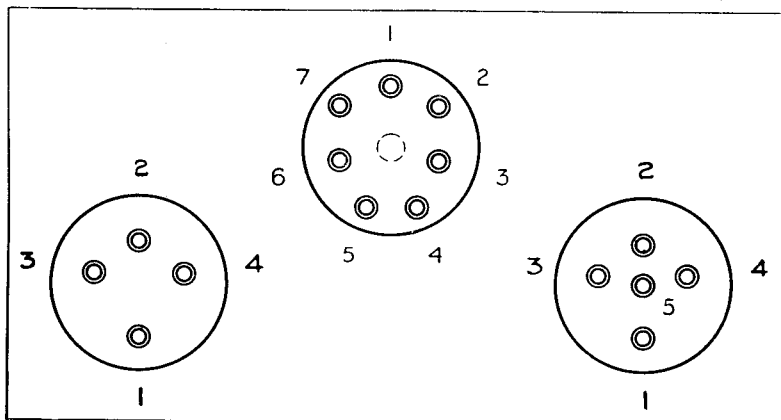
*Anode volts 200, screen volts 100, grid volts zero.

†Anode volts 200, screen volts 100, grid volts - 35.

VALVES

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	A
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	—
1D5 ...	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