

## R.F. SCREENED PENTODE TYPE 8A.1

The BRIMAR 8A.1 is an indirectly heated radio frequency screened pentode valve.

It should only be used in R.F. circuits where the input does not greatly exceed 0.5 volts. Where higher voltages are encountered some form of pre-H.F. volume control (or alternatively the 9A.1) should be employed.

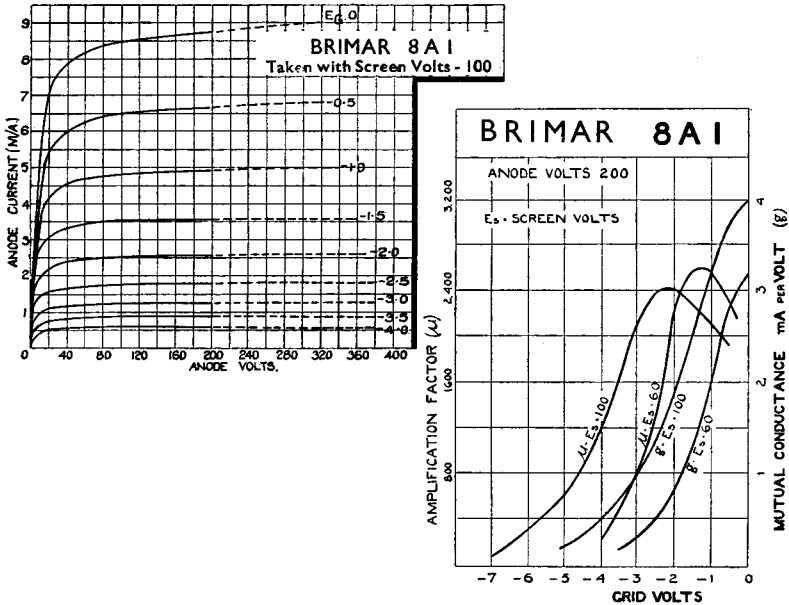
As an anode bend detector the 8A.1 is particularly recommended, a large audio output being obtained with a small R.F. grid input. A suitable value of cathode bias resistor being 8,000 ohms, using a screen voltage of 60 and an anode resistor of 0.25 megohms.

As a frequency changer in superheterodynes a high conversion gain can be obtained. While the heater cathode insulation is of a sufficiently high order to prevent noise occurring when using cathode coupling.

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

# BRIMAR

## CHARACTERISTICS

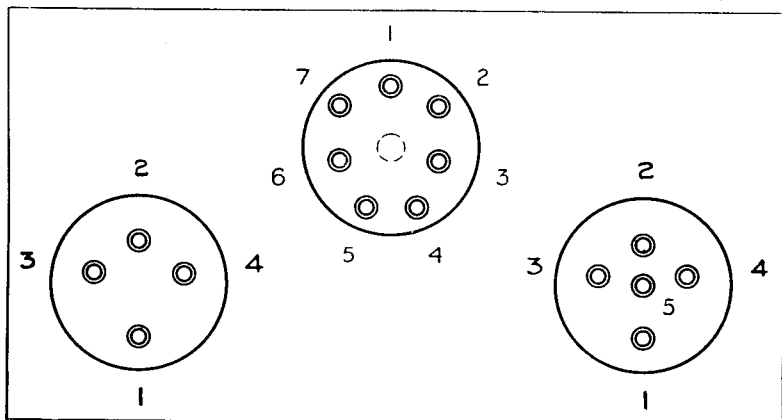


Heater Voltage	...	...	4.0 volts $\pm$ 5%
Heater Current	...	...	1.0 amp.
Max. Anode Voltage	...	...	250 volts
Max. Screen Voltage	...	...	100 volts
*Amplification Factor	...	...	1,500
*Mutual Conductance	...	...	4.0 mA. per volt
*Impedance	...	...	375,000 ohms

\* Measured at anode volts 200, screen volts 100, grid volts zero.

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## 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