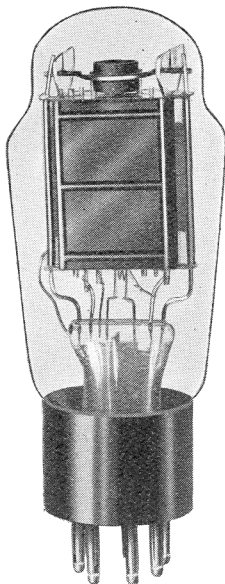


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# BRIMAR

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## HIGH SLOPE POWER PENTODES TYPES 7A.3, 7D.6 and 7D.8

The BRIMAR 7A.3, 7D.6, and 7D.8, are indirectly heated high slope power pentodes covering the whole range of requirements for A.C., universal and automobile receivers respectively.

The sensitivity is such that with an input of 2.0 volts R.S.M. (200 volts on screen), the valves are fully loaded, thus dispensing with the intermediate L.F. stage usually required. Owing to the high efficiency attained, it is recommended that a resistor of the order of 100 ohms be connected in the anode circuit, in addition to the usual grid circuit stopper, to prevent the generation of parasitic oscillations. The use of automatic bias is strongly recommended, care being taken to shunt the resistor with a by-pass condenser of adequate capacity, in order to obtain the maximum sensitivity and preserve the lower register.

Operation details and characteristics are given overleaf. The valves are fitted with seven pin bases, connections being as for the 7A.2 on page 51 of the BRIMAR Catalogue.

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## VALVES

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# BRIMAR

## CHARACTERISTICS

	7A.3	7D.8	7D.6
Heater Voltage ... ..	4.0	13	40 volts
Heater Current ... ..	2.0	0.65	0.2 amps
Anode Voltage (max.) ... ..	...	250	volts
Screen Voltage (max.) ... ..	...	250	volts
Mutual Conductance ... ..	...	*10	mA./V.
Mutual Conductance ... ..	...	†10	mA./V.
Impedance ... ..	...	†60,000	ohms
Amplification Factor ... ..	...	†600	
Maximum Anode Current ... ..	...	40	mA.

\* Taken at anode and screen volts 100, grid volts 0

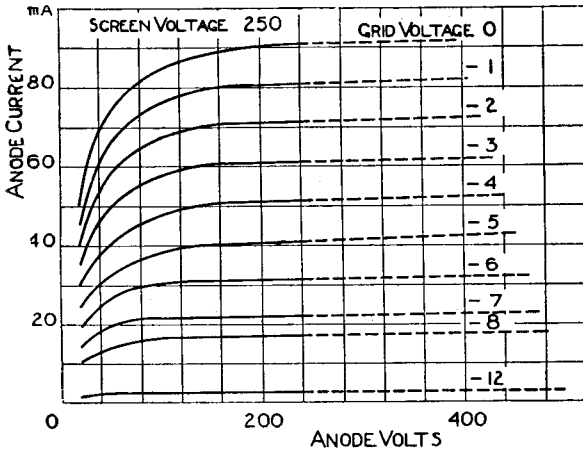
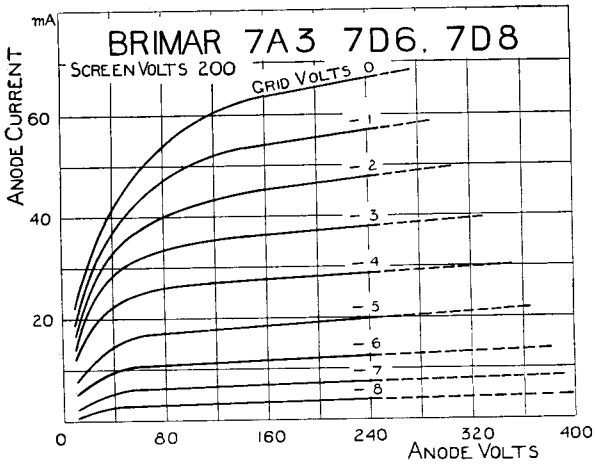
† Taken at anode and screen volts 250 grid volts -6.

## APPROXIMATE OPERATING CONDITIONS

Anode Volts ... ..	250	200	150
Screen Voltage ... ..	250	200	150
Anode Current (mA.)	31	31	30
Grid Bias (volts) ... ..	-6	-4	-2
Auto-Bias Resistance (ohms) ... ..	150	100	60
Load Impedance (ohms)	8500	8700	8900

# VALVES

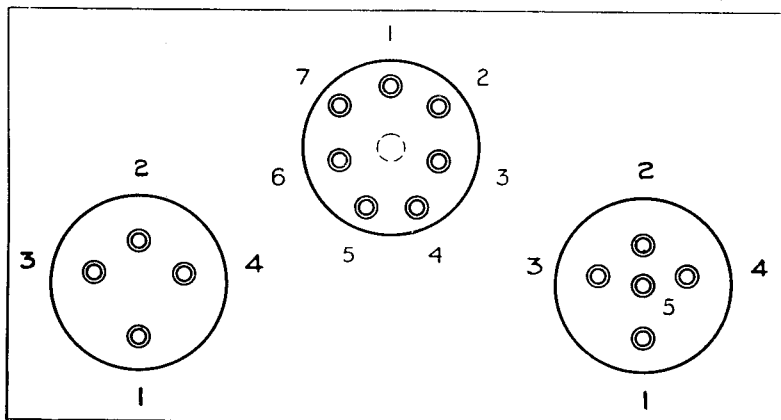
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VALVES

# 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	—
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