BRIMAR:



UNIVERSAL POWER PENTODE TYPE 7D.3

The 7D.3 is an indirectly heated high efficiency output pentode for use in A.C. Universal receivers.

The valve is capable of giving a generous output with 90 volts on anode and screen, rendering the valve extremely useful for receivers intended for use on 110 volt mains.

The maximum anode and screen voltage is 150, so that in receivers designed for the 200/250 volt mains the speaker field may still be used for smoothing purposes, thus simplifying and reducing the cost of this unit.

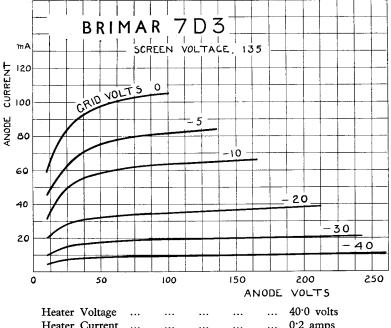
When automatic bias is employed, the resistor should be shunted with a condenser of at least 4 mfd. or a suitable filter network in order to utilise the full gain of the valve and preserve the lower register.

Operation details and characteristics are given overleaf. The valve is fitted with a seven-pin base, the connections being as shown on page 51.

=VALVE5=

BRIMAR

CHARACTERISTICS



Heater Voltage				 40.0 volts
Heater Current				 0.2 amps
Anode Voltage (maxim	um)			 150 volts
Screen Voltage (maxim	um)			 150 volts
*Mutual Conductance				 3.8 mA./V.
†Mutual Conductance	•••	•••		 2.5 mA./V.
†Impedance			•••	 37,000 ohms
†Amplification Factor (A	M)		•••	 85
†Load Impedance				 4,000 ohms

* Taken at anode and screen volts 100, grid volts 0 † Taken at anode and screen volts 135, grid volts —20.

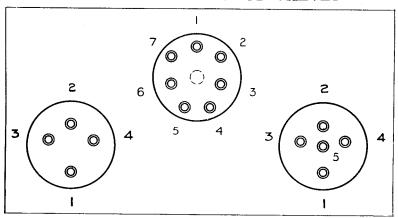
OPERATING DATA

Anode Voltage Screen Voltage Anode Current (mA.) Grid Bias (volts) Auto Bias Resistor (ohms)		150 150 40 —22·5 450	135 135 35 —20 500	100 100 20 —15 600
Auto Bias Resistor (ohms)		450	500	600
Load Impedance (ohms)	•••	3,750	4,000	4,500





BASE CONNECTIONS OF VALVES



UNDERSIDE VIEW OF BASES 4-PIN VALVES

Туре				1		2		3	4
HLB.1, PB.1 R.1, R.2, R.3, 1A.7 4037A			. A1		G A2		.M H F	F H.C F	
		5-1	PIN V	ALVE	S				
Туре		1	2	3		4		5	Top Cap
8A.1, 9A.1 HLA.2, PA. PenB.1, Pen 4039A 1D5	1 A.1	A A A	G1 G G1 G	H H F H]	H C		C.M C.M G2 C C	
		7-1	PIN V	ALVE	S				
Түре	1	2	3	4	5	•	5	7	Top Cap
4D.1 7A.3, 7D.8,			_	Н	Н	(2	Α	G
7D.6, 7A.2, & 7D.3		G1	G2	н	Н	(2	A	_

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

G3

D2

G3.G5

Н

H

Н

Н

Η

CCC

G1

G1

G4

A

M

G1

G2

9D.2

11A.2, 11D.3 D1

15A.2, 15D.1