

PA.20 DIRECTLY HEATED MAINS OUTPUT TRIODE

RATING.

Filament Voltage				 •••	2.0
Filament Current (Amps.)			• • •	 • • •	2.0
Maximum Anode Voltage		• • • •	•••	 	300
*Mutual Conductance (mA/V)			• • •	 •••	6∙5
*Amplification Factor				 	6.5
*Anode A.C. Resistance (Ohms))			 	1,000
Maximum Continuous Anode É	Dissip	ation (\	Watts)	 	15

^{*} at Ea = 100 v.; Eg = 0.

TYPICAL OPERATION.

Straight.			Push-Pull.	
250	250	300	250	300
42	50	48	84	84
29	27 · 2	36	29	37.2
690	5 4 5	750	345	440
1,200	1,150	1,200	1,200	1,200
5∙0	5.4	5.4	5∙0	5∙0
2,750	2,220	3,000	_	
ns)	_	_	4,600	5,300
19.8	18∙5	24.8	19.8	25.6
4 8	57.5	57.5	96	112
2.65	2.75	4.2	5∙6	9.0
	250 42 29 690 1,200 5.0 2,750 ns) — 19.8	250 250 42 50 29 27-2 690 545 1,200 1,150 5-0 5-4 2,750 2,220 ns) — — 19-8 18-5 48 57-5	250 250 300 42 50 48 29 27·2 36 690 545 750 1,200 1,150 1,200 5·0 5·4 5·4 2,750 2,220 3,000 ns) — — — 19·8 18·5 24·8 48 57·5 57·5	250 250 300 250 42 50 48 84 29 27·2 36 29 690 545 750 345 1,200 1,150 1,200 1,200 5·0 5·4 5·4 5·0 2,750 2,220 3,000 — ns) — — — 4,600 19·8 18·5 24·8 19·8 48 57·5 57·5 96

^{*} For a total harmonic content not exceeding 5 per cent.

DIMENSIONS.

Maximum overall length	 	 	 140 mm.
Maximum diameter	 	 	 58 mm.

GENERAL.

The PA.20 is a directly heated power output triode for use in A.C. mains receivers. The characteristics of this valve with the exception of filament voltage are identical with the PP3/250. It has been designed to reduce hum level present with 4-volt directly heated valves when these are used in other than push-pull circuits. The valve is fitted with a standard 4-pin base, the connections to which are given overleaf.

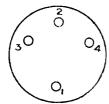
APPLICATION.

It is recommended that the bias voltage be obtained by means of a self-bias circuit, the resistance being by-passed with a large condenser. Approximately 50 μF . is a suitable value. The grid-filament circuit resistance should not exceed 0.5 megohms with 12 watts dissipation, or 0.25 megohms with 15 watts dissipation, with each valve individually self-biased. This same resistance should not exceed 0.25 megohms with 12 watts dissipation and 0.05 megohms with 15 watts dissipation with fixed or common bias.

EDISWAN RADIO



BASING.



Pin No. I. Anode.

2. Grid.

3. Filament.

4. Filament.

Viewed from the free end of the base.

