



## PP5/400

### OUTPUT TRIODE

#### RATING.

Filament Voltage	...	...	...	...	...	4.0
Filament Current (Amps.)	...	...	...	...	...	2.0
Maximum Anode Voltage	...	...	...	...	...	400
Maximum Anode Dissipation (watts)	...	...	...	...	...	25
*Mutual Conductance (mA/V)	...	...	...	...	...	6.0
*Amplification Factor	...	...	...	...	...	9.0
*Anode A.C. Resistance (ohms)	...	...	...	...	...	1,500

\*Taken at  $E_a=100$  ;  $E_g=0$ .

#### TYPICAL OPERATION.

Anode Voltage	...	...	...	...	...	400
Anode Current (mA)	...	...	...	...	...	62.5
Grid Voltage for A.C. Filament Operation	...	...	...	...	...	32.0
Self-bias Resistance for A.C. Filament Heating (ohms)	...	...	...	...	...	510
Grid Voltage for D.C. Filament Operation	...	...	...	...	...	30
Amplification Factor	...	...	...	...	...	8.8
Anode A.C. Resistance (ohms)	...	...	...	...	...	1,220
Mutual Conductance (mA/V)	...	...	...	...	...	7.2
Optimum Anode Load (ohms)	...	...	...	...	...	2,700
M.U. Power Output (watts)	...	...	...	...	...	5.85
R.M.S. Input Grid Volts (per valve)	...	...	...	...	...	21.2
Anode Current at M.U.P.O. with Fixed Bias (mA)	...	...	...	...	...	70

#### DIMENSIONS.

Maximum Overall Length	...	...	...	...	...	150 mm.
Maximum Diameter	...	...	...	...	...	64 mm.

#### GENERAL.

The PP.5/400 is a directly heated power triode for use in the output stage where a 450-volt supply is available. For anode voltages of 300 and below, the PP.3/250 or PA.20 will, in general, be more suitable than the PP.5/400. The valve is fitted with a standard 4-pin base, the connexions to which are given overleaf.

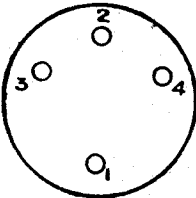
#### APPLICATION.

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 mfd. is a suitable value. The grid filament circuit resistance should not exceed 0.25 megohms.

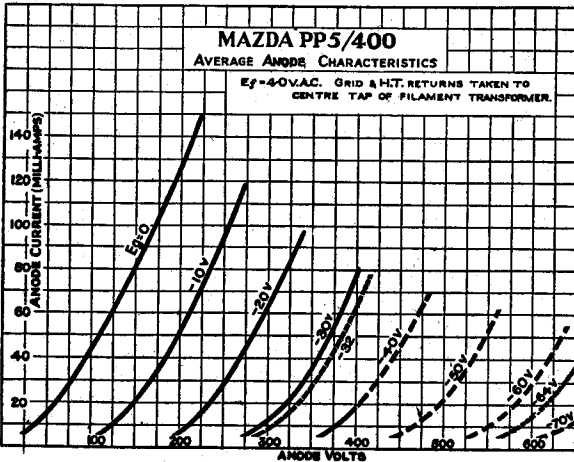
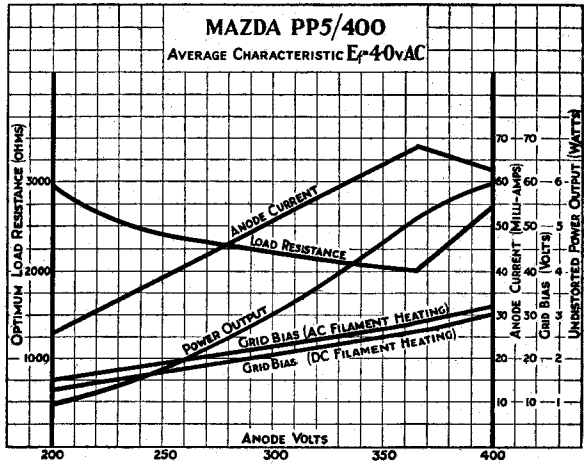


**BASING.**

- Pin No. 1. Anode.
- 2. Grid.
- 3. Filament.
- 4. Filament.



Viewed from the free end of the base.



Mazda Radio Valves are manufactured in Great Britain for the British Thomson-Houston Co., Ltd., London and Rugby, and distributed by

**THE EDISON SWAN ELECTRIC CO., LTD.,**  
155, CHARING CROSS ROAD, LONDON, W.C.2

