P.41

A.C. MAINS TRIODE

RATING.

Heater Voltage	4·0
Heater Current (Amps.)	0·95
Maximum Anode Voltage	250
*Mutual Conductance (mA/V)	8·0
*Amplification Factor	17
Maximum Peak Anode Current (mA.)	30
Maximum Anode Watts	4·0

* Taken at Ea=100 ; Eg=0.

TYPICAL OPERATION.

As an oscillator.

Anode Voltage (approx.)	40
Anode Current (mA.)	4 to 5

INTER-ELECTRODE CAPACITIES.

*Anode to Earth	4·75 $\mu\mu$F.
*Grid to Earth	7·0 $\mu\mu$F.
Anode to Grid	3·5 $\mu\mu$F.
Cathode to Heater	7·0 $\mu\mu$F.

* " Earth " denotes the remaining earthy potential electrodes and metallising joined to cathode.

DIMENSIONS.

Maximum Overall Length	88 mm.
Maximum Diameter	32 mm.

GENERAL.

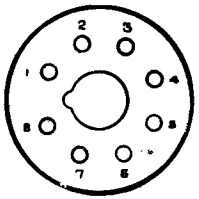
The P.41 is an indirectly heated triode particularly suitable for use as an oscillator. The bulb is of small dimensions and metallised. The valve is fitted with a Mazda octal base, the connexions to which are given overleaf.

APPLICATION.

The valve has been primarily designed for use as an oscillator in television receivers where it is desired to use a frequency changer consisting of an SP.41 with injection into the grid circuit. Under these conditions conversion conductances of the order of 2,700 are obtained with a very much better signal to noise ratio than is obtainable with any other form of frequency changer. It should be realised when designing oscillators for operation at these high frequencies (32 megacycles) that the constants given can only apply to one particular lay-out as very small changes in the disposition of leads or the length of the leads of the oscillator circuit will appreciably affect its performance. This valve may also be used as an oscillator in all-wave receivers where a combined frequency changer is not employed.

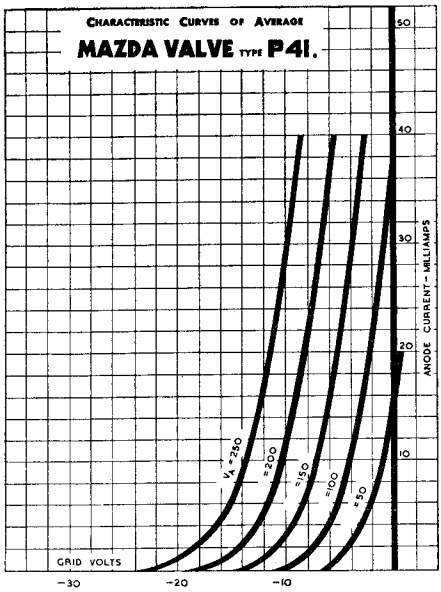
MAZDA

BASING.



Pin No. 1. Heater.
2. Cathode.
3. Anode.
4. —
5. Control Grid.
6. Metallising.
7. Omitted.
8. Heater.

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.