



V.312

A.C. MAINS TRIODES

RATING.

Heater Voltage	...	...	...	...	...	...	4.0
Heater Current (Amps.)	...	...	...	...	...	...	0.65
Maximum Anode Voltage	...	...	...	...	...	...	250
*Mutual Conductance (mA/V)	...	...	...	...	...	...	2.5
*Amplification Factor	...	...	...	...	...	...	30
*Anode A.C. Resistance (ohms)	...	...	...	...	...	...	12,000

* Taken at $E_a = 100$, $E_g = 0$.

TYPICAL OPERATION.

Anode Voltage	...	...	...	...	...	150	150
Anode Current (mA)	...	...	...	...	...	3.0	2
Mutual Conductance (mA/V)	...	...	...	...	...	2.0	1.6
Grid Bias (Volts)	...	...	...	...	...	2.75	3.3

INTER-ELECTRODE CAPACITIES.

*Anode to Earth	...	...	...	...	...	4.5	$\mu\mu\text{F.}$
*Grid to Earth	...	...	...	...	...	4.5	$\mu\mu\text{F.}$
Anode to Grid	...	...	...	...	...	2.2	$\mu\mu\text{F.}$

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

DIMENSIONS.

Maximum Overall Length	...	...	...	...	...	127 mm.
Maximum Diameter	...	...	...	...	...	39 mm.

GENERAL.

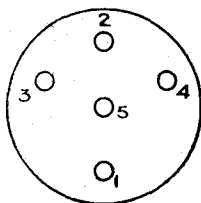
The V.312 is an indirectly heated triode specially intended for use in microphone amplifiers and similar applications where low hum level and valve noise are required. The bulb of the valve is metallised, and the valve is fitted with a standard 5 pin base, the connexions to which are given overleaf. The grid is connected to the top cap.

APPLICATION.

This valve may be used as a low-frequency amplifier with either transformer, choke or resistance-capacity coupling. With resistance-capacity coupling an anode resistance of 50,000 to 100,000 ohms will be found suitable.



BASING.



Pin No. 1. Anode.

2. —

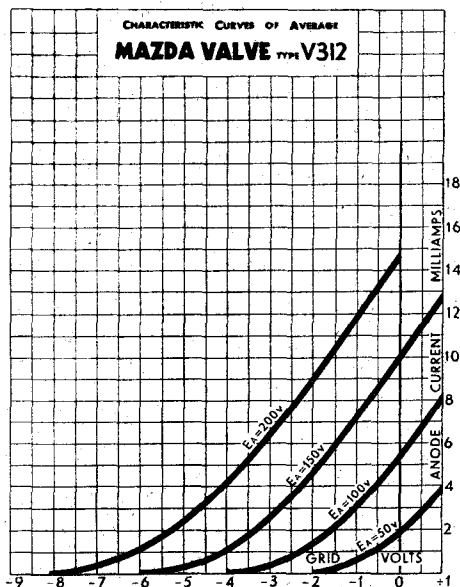
3. Heater.

4. Heater.

5. Cathode and Metallising.

Top Cap. Control Grid.

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.

