MAZDA

A.C.2/HL

A.C. MAINS TRIODE

RATING.

Heater Voltage	4.0
Heater Current (Amps.)	1.0
Maximum Anode Voltage	200
*Mutual Conductance (mA/V)	6.5
*Amplification Factor	75
*Anode A.C. Resistance (ohms)	11,500

*Taken at Ea=100; Eg=0.

TYPICAL OPERATION.

Anode Voltage	100	150	200
Grid Bias (Anode-bend Detector)	−1.5 to −3	−3 to −6	−4.5 to −7.5
Grid Bias Amplifier	−1.0	−1.25 to −1.75	−1.5 to -2.25

INTER-ELECTRODE CAPACITIES.

Anode to Cathode	6.0 $\mu\mu$F.
Grid to Cathode	9.0 $\mu\mu$F.
Anode to Grid	6.5 $\mu\mu$F.

DIMENSIONS.

Maximum Overall Length	115 mm.
Maximum Diameter	45 mm.

GENERAL.

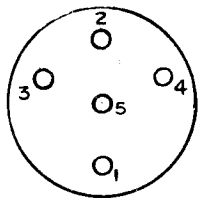
The AC2/HL is an indirectly heated triode for A.C Mains operation. It has a very high operating mutual conductance and amplication factor The bulb is metallised, and the valve is fitted with a standard 5-pin base. the connexions to which are given overleaf.

APPLICATION.

The low impedance of this valve, together with its high mutual conductance, makes it suitable for use as an anode-bend detector. The table above may be used as a rough guide when choosing the required value for bias, though the actual amount depends mainly on the amplitude of the applied signal.

The valve may be used as a low-frequency amplifier with either transformer choke or resistance-capacity coupling. With resistance coupling an anode coupling resistance of 50,000-100,000 ohms will be found satisfactory. By keeping the anode coupling resistance down to these values

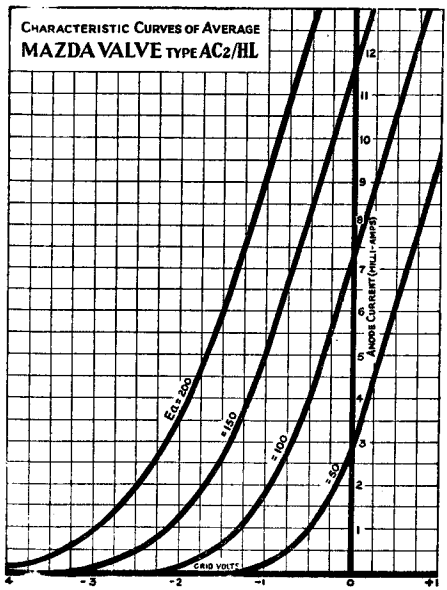
it is assured that the higher audio-frequencies are produced without attenuation. When using transformer or choke coupling, the primary inductance need not be high, the anode A.C. Resistance of the AC2/HL being exceptionally low for this class of valve.



Viewed from the free end of the base.

BASING.

Pin No. 1. Anode.
2. Control Grid.
3. Heater.
4. Heater
5. Cathode and Metallising.



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