

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
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*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

100

INTER-ELECTRODE CAPACITIES.

Anode to Cathode	 	• • • •	 	60 $\mu\mu$ 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.

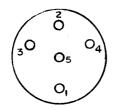
The low impedance of this valve, together with its high mutual conductance, makes it suitable for use as an anode-bend detector. The table above may be used as a rough guide when choosing the required value for bias, though the actual amount depends mainly on the amplitude of the applied signal.

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

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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.

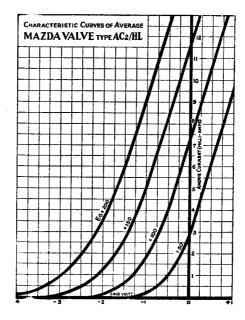


BASING.

Pin No. I. Anode.

- 2. Control Grid.
- 3. Heater.
- 4. Heater
- 5. Cathode and Metallising.

Viewed from the free end of the base.



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

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