



ME.91

A.C./D.C. MAINS CATHODE RAY TUNING INDICATOR

RATING.

Heater Voltage	...	...	...	...	...	...	9.0
Heater Current (Amps).	...	...	...	...	...	...	0.2
Maximum Anode Voltage	...	...	...	...	...	...	200
Maximum Target Voltage	...	...	...	...	...	...	200

OPERATING CONDITIONS.

H.T. Supply Voltage	...	...	...	...	...	150	175.
Target Current (mA) (approx.)	...	...	...	...	...	2.1	2.7
*Anode Current (mA) (approx.) at $V_g = 0.5$	...	...	...	...	...	0.135	0.16.
*Grid Voltage (0° shadow angle) (approx.)	...	...	...	...	...	17	19

* For anode load resistance of 1 megohm.

DIMENSIONS.

Maximum overall length	...	...	...	...	...	90 mm.
Maximum diameter	...	...	...	...	...	28.5 mm.

GENERAL.

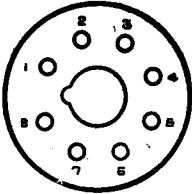
This valve is the equivalent of the ME.41 and is intended for use in A.C./D.C. receivers. The valve is based in a British Octal Base, the connections to which are given overleaf.

APPLICATION.

The grid of the valve should always be controlled from the detector circuit, and not the A.V.C. diode circuit, so as to enable visual tuning to be obtained below the delay point. This also eliminates the possibility of two tuning positions giving a minimum value if either transformer has a double humped primary response. The tapping values controlling the ratio of D.C. volts applied to the control grid should be arranged to give a suitable deflection on a local station.

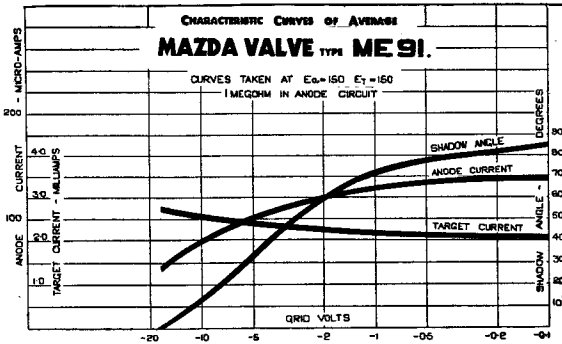


BASING.



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

Viewed from the free end of the base.



CIRCUIT DIAGRAM.

Values of components:

- R_1 2 megohms.
- R_2 2 megohms.
- R_3 1 megohm.

These values are representative only and the value of R_2 may need alteration to suit individual circuit conditions.

IMPORTANT. A condenser of 0.1 mfd. should be connected between the grid and cathode of the ME.91.

