

CLEARTRON

AMERICA'S FOREMOST VALVE
MADE IN
BRITAIN'S NEWEST FACTORY.

TYPE C.T. 199 AVERAGE SPECIFICATION.

(DRY CELLS. 2- $\frac{1}{2}$ VOLTS.)

Filament Volts 3.0.
Filament Amps 0.08.
Anode Volts 30-120.
Grid Bias Volts, neg. 0-6.
Impedance in ohms 18,000.
Amplification Factor 7.5.
Emission in milliamps, over 6.
Normal Working Slope 0.42 m.a/v.
Overall length, approximately 105 m/m.
Overall diameter, approximately 30 m/m.

THIS valve is a Cleartron Every Purpose Dual Emitter, that is, it will work equally well on high or low frequency amplification and rectification, giving maximum volume without distortion, however used.

The table printed on the reverse side is intended only as a rough guide for using these valves, as individual sets, according to their design, will probably require different values of high tension grid bias, etc., in order to give the best results. As a general rule the valves should not be run at a higher filament temperature than that necessary to give distortionless reception.

The length of life of the valve will depend to a great extent on the way it is used, and if reasonable care is taken not to over-run the filament, loss of "emission" which determines the usefulness of the valve, will not occur until after a long period of actual use of the valve has been obtained.

This valve is covered by our iron-clad guarantee to function, and if it does not give satisfaction, should be returned to the nearest Cleartron dealer, who will immediately exchange it without cost or question, providing the filament is still unbroken.

Great care should be taken to prevent the high tension voltage from being accidentally applied to the filament, and with this end in view valves should be removed from their sockets whilst changing connections of the set.

Cleartron valves are sometimes discoloured during the process of manufacture, but this has no effect whatever on the perfect functioning of the valve.

The curves shown on the reverse help to show the excellence of Cleartron C.T.199 valves, while actual use will convince you of their undoubted superiority over all other valves of their class.

CLEARTRON RADIO LIMITED

SOLE MANUFACTURERS

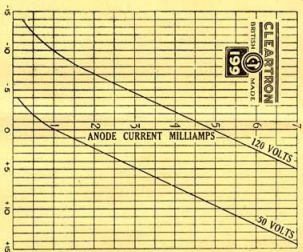
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WEST NEW YORK, N.Y. BIRMINGHAM

Offices: **ONE CHARING CROSS, LONDON.**

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Telegrams: CLEARTRON, WESTSTRAND, LONDON.

Sole Distributors of American Types:—
ROTHERMEL RADIO CORPORATION OF G.T. BRITAIN, LTD.
LONDON.

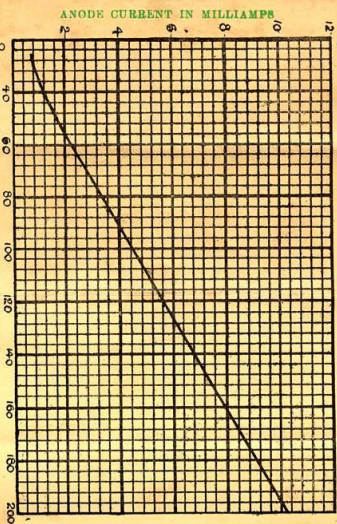


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Value used as	Grid Returns	H.T. Vols.	Grid Bias
H.F.	Neg. Fil.	60	Nil
Det.	Pos. Fil.	35	Nil
1st L.F.	Neg. Bias	90	3½ 4
2nd L.F.	Neg. Bias	120	6

APPROXIMATE GRID BIAS DATA
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