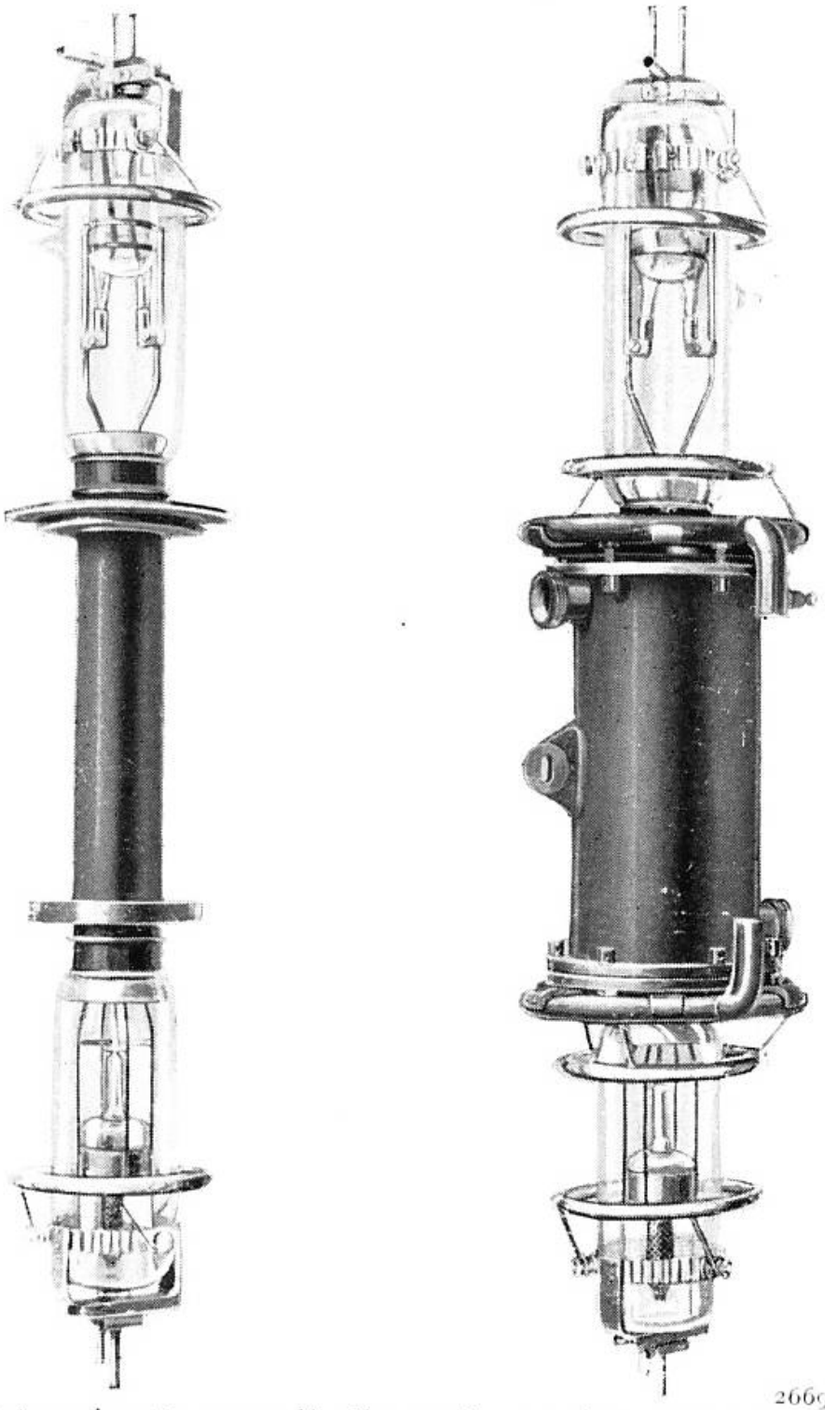
# Transmitting Valve

## TYPE C.A.T.2

(Cooled Anode)



2669

(*Approximate overall dimensions:* 800 × 125 *m/m.*)

A transmitting valve in which the anode forms part of the valve envelope designed for cooling by a liquid circulated in direct contact with the anode.

The valve is designed specially for use on short wavelengths.

It is capable of dealing with a maximum input under normal oscillating conditions on telegraphic load of 1·0 ampere mean anode current at 10,000 anode volts D.C. at wavelengths exceeding 40 metres. At lesser wavelengths the anode voltage must be reduced.

*Marked Volts.* Individual valves are marked with the filament voltage which gives 5 amperes emission current at 90 per cent. saturation.

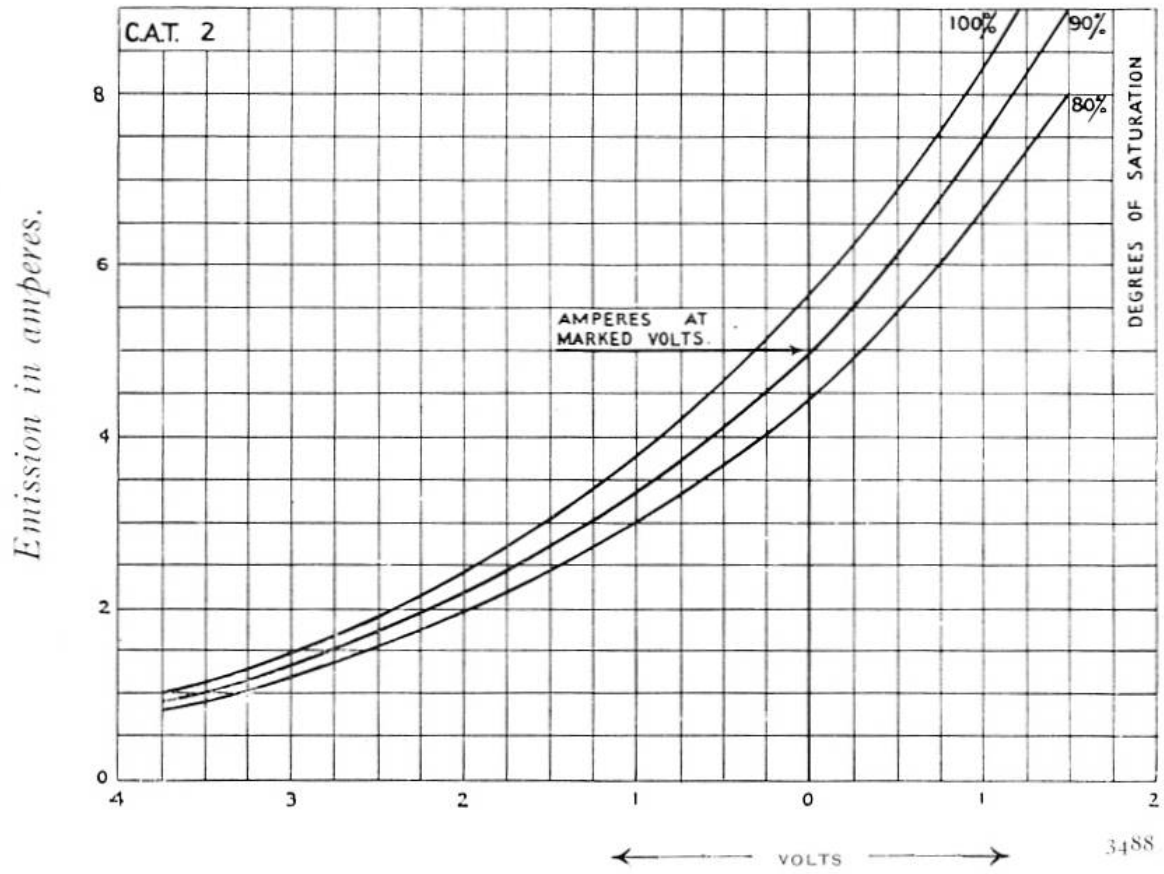
*Approximate Data:*

| | | | |
|---|---|---|---|
| Filament volts .. | 18—20 | 90% Total emission (amps.) | 5 |
| Filament amperes .. | 50 | *Impedance (ohms) .. | 10,000 |
| Anode volts .. .. | 10,000 | *Amplification factor .. | 50 |

* *Taken about anode volts* 10,000 *and grid volts* 0.

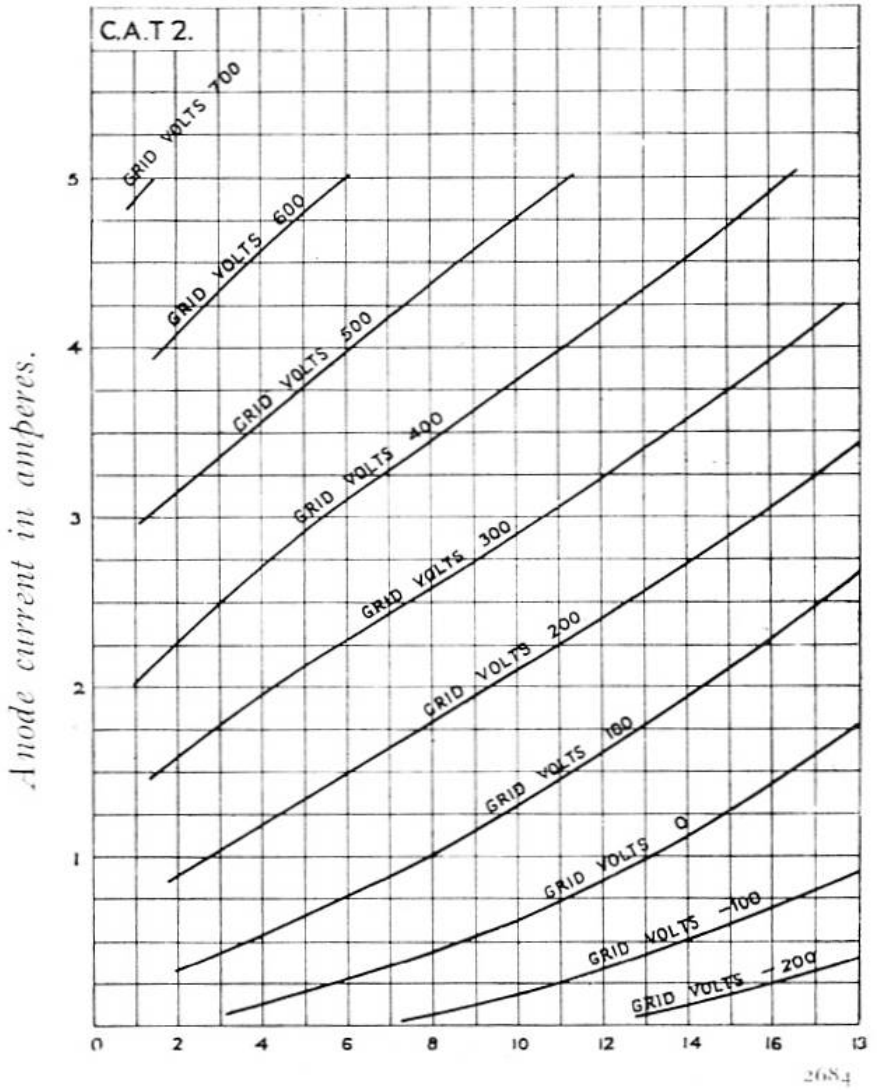
*Code Word:* IVOBE

*Variation of emission with filament volts as related to marked filament volts for various degrees of saturation of emission current.*




*Marked volts to be decreased by above amount.*

*Marked volts to be increased by above amount.*




*Anode potential in kilovolts.*

Characteristic Curves of Average Valve.

# TYPE C.A.T.2