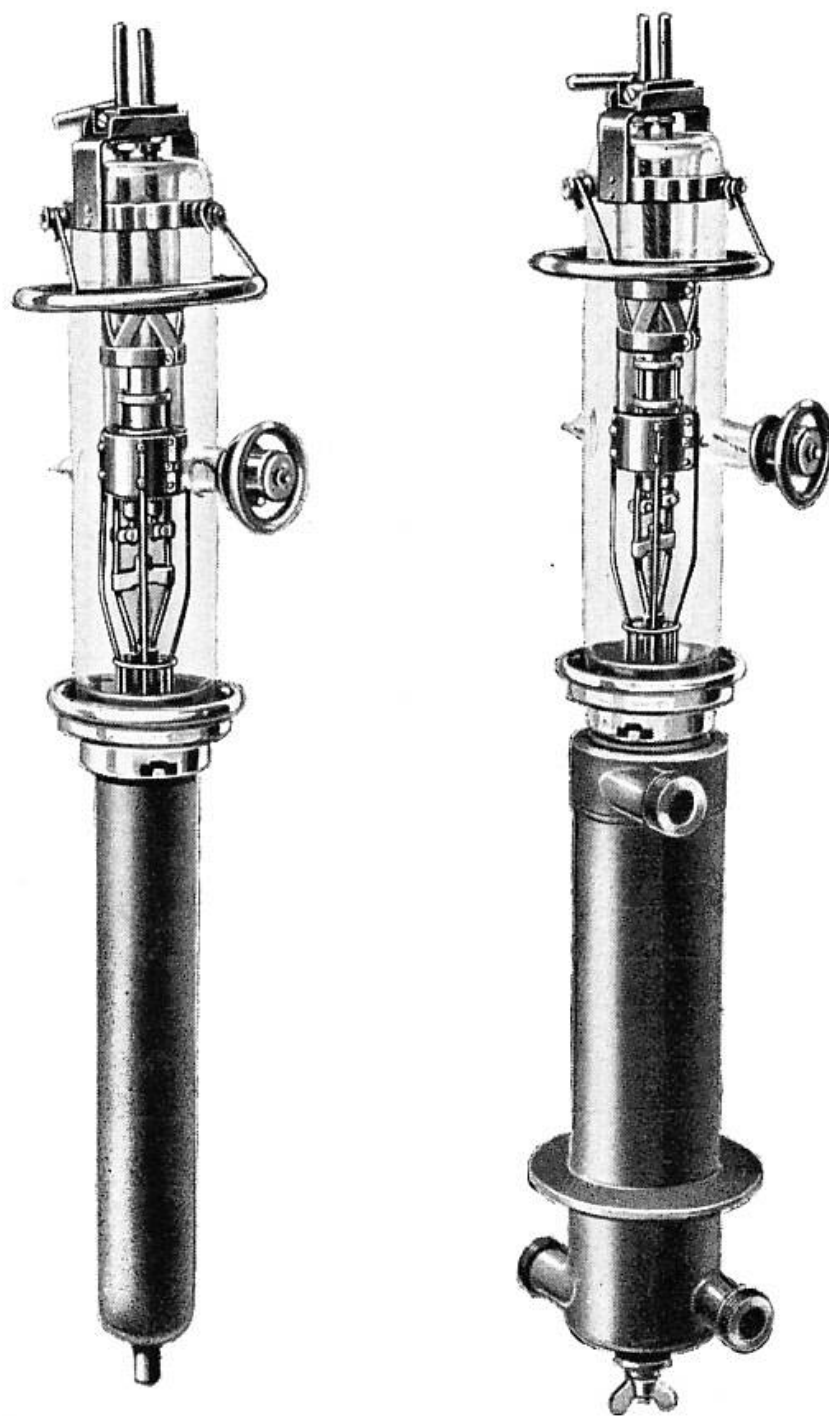


# Transmitting Valve

## TYPE C.A.T.6

(Cooled Anode)



(Approximate overall dimensions:  $730 \times 125$  m/m.)<sup>3084</sup>

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. When water is used as the cooling liquid the rate of flow should be 3 to 4 gallons per minute, depending on the conditions of use.

Normal input 2.0 amperes mean anode current at 12,000 anode volts D.C. when used in a suitable circuit under oscillating conditions on a long wave telegraphic load.

On a telephonic load using anode voltage modulation the input should not exceed 1 ampere mean anode current at 12,000 anode volts D.C.

When used as an amplifier of modulated high frequency currents, the maximum anode voltage is 12,000 volts D.C. and the dissipation per valve anode must not exceed 12 kw.

*Marked Volts.* Individual valves are marked with the filament voltage which gives 10 amperes emission current at 90 per cent. saturation.

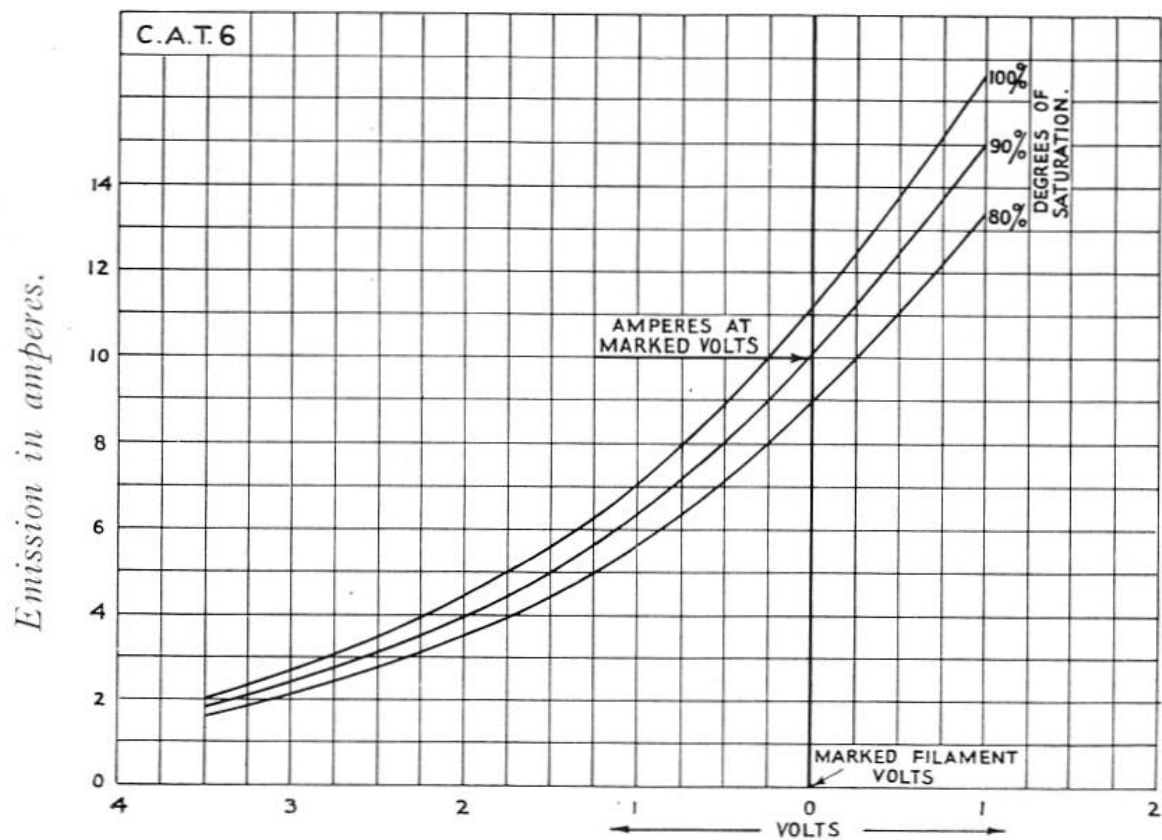
### Approximate Data :

Filament volts	.. 18-20	Emission (amperes)	.. 10
Filament amperes	.. 75	*Impedance (ohms)	.. 5,000
Anode volts D.C.	10,000-12,000	*Amplification factor	.. 45

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

Code Word : IVOSC

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

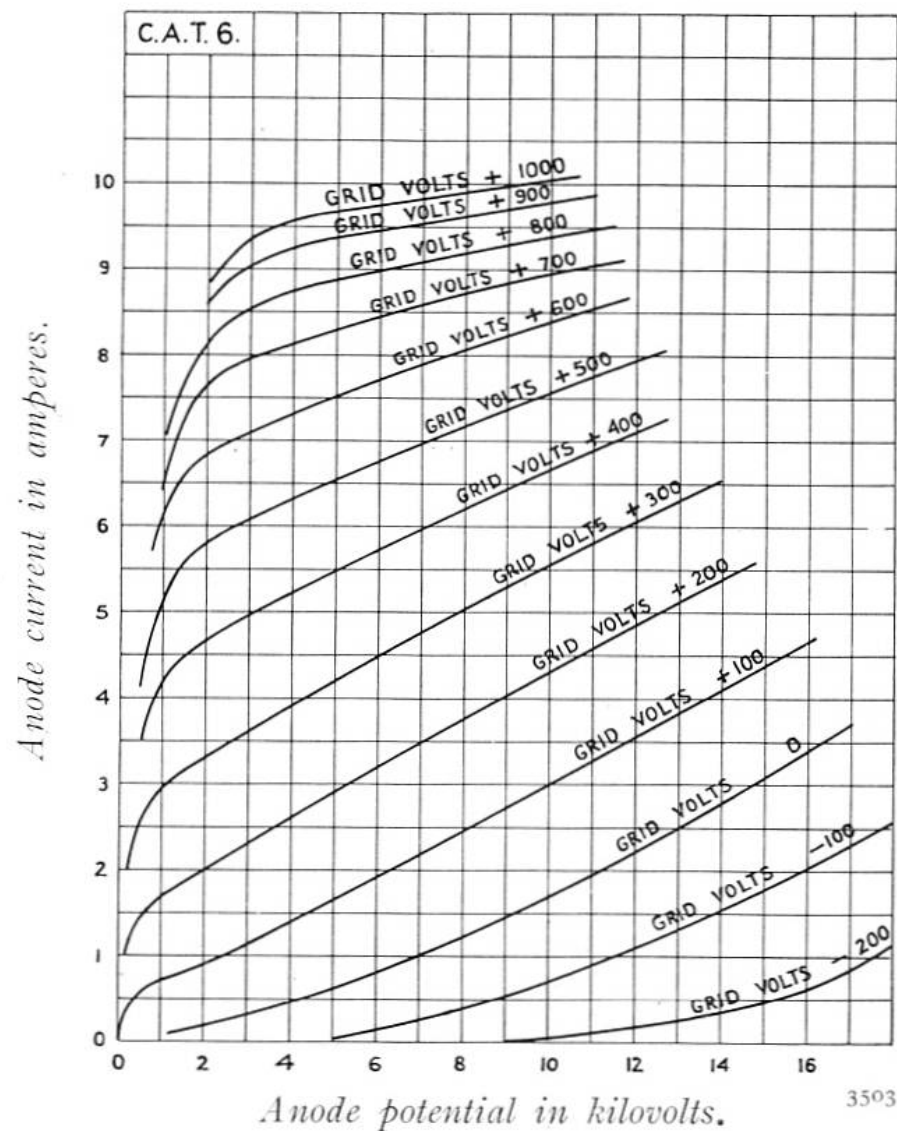


Marked volts to be decreased by above amount.

Marked volts to be increased by above amount.

3502

Filament at Marked Volts.



3503

Characteristic Curves of Average Valve.

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