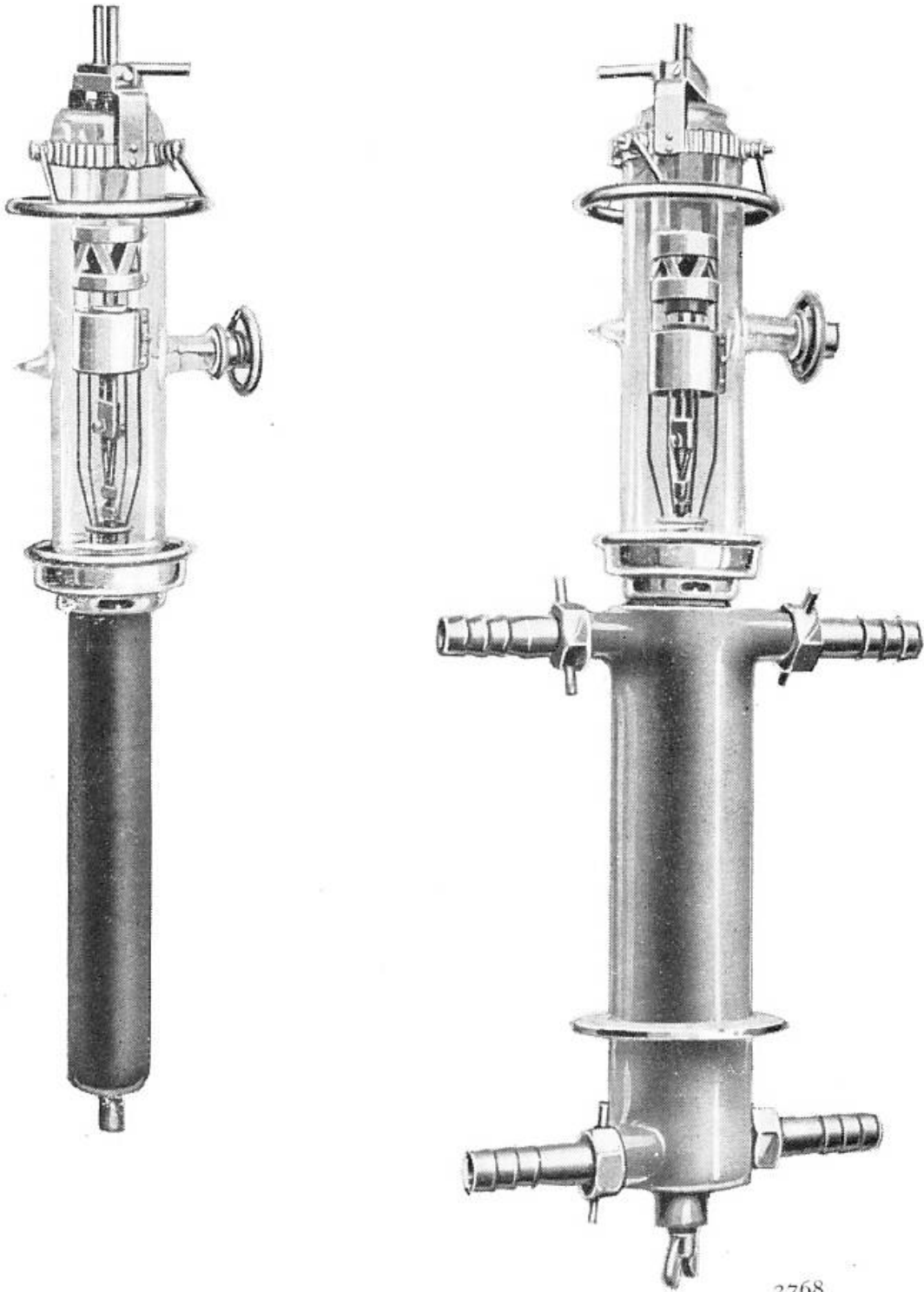


Modulating Valve

TYPE C.A.M.3

(Cooled Anode)



2768

(Approximate overall dimensions : 730 × 125 m/m.)

A modulating valve in which the anode forms part of the valve envelope, designed for cooling by a liquid 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 upon the conditions of use.

Capable of continuously dissipating at the anode 12 kw. at voltages up to 12,000 volts. May be used as an amplifier of modulated high frequency currents ; when so used the anode voltage should not exceed 10,000 D.C.

Marked Volts. Individual valves are marked with the filament voltages which give 3 amperes and 7 amperes emission at 90 per cent. saturation. The lower marked volts relate to operation as a modulator valve.

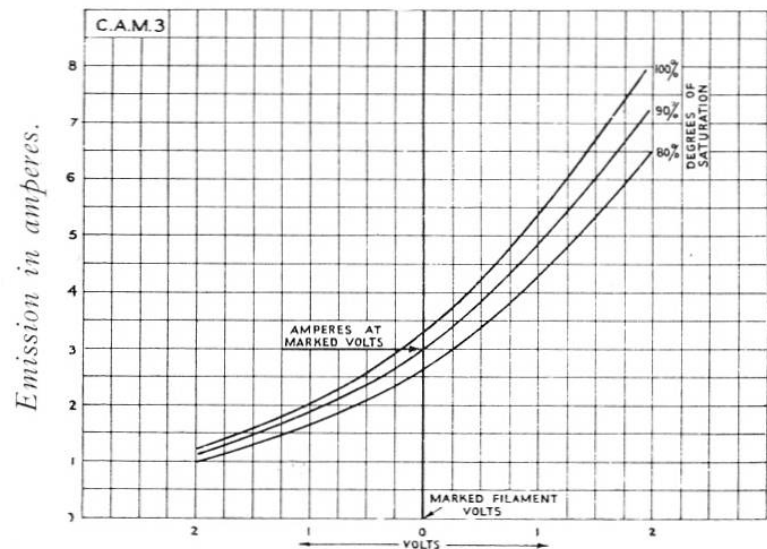
Approximate Data :

Filament volts	17.0	Emission (amps.) ..	3—7
Filament amperes	70	*Impedance (ohms) ..	1,000
Anode volts .. 10,000—12,000		*Amplification factor ..	6.5

* Taken about anode volts 11,000 and grid volts — 1,500.

Code Word : IVOOL

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



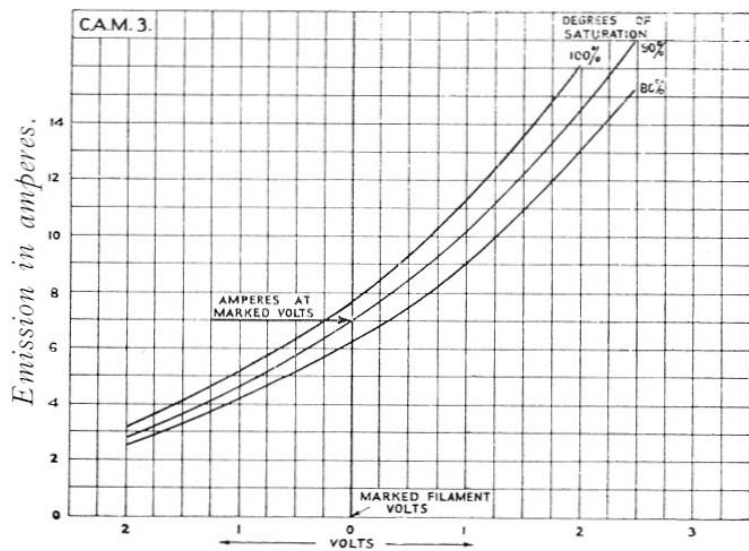
Filament potential in volts.

Marked volts to be decreased by above amount.

Marked volts to be increased by above amount.

3505

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

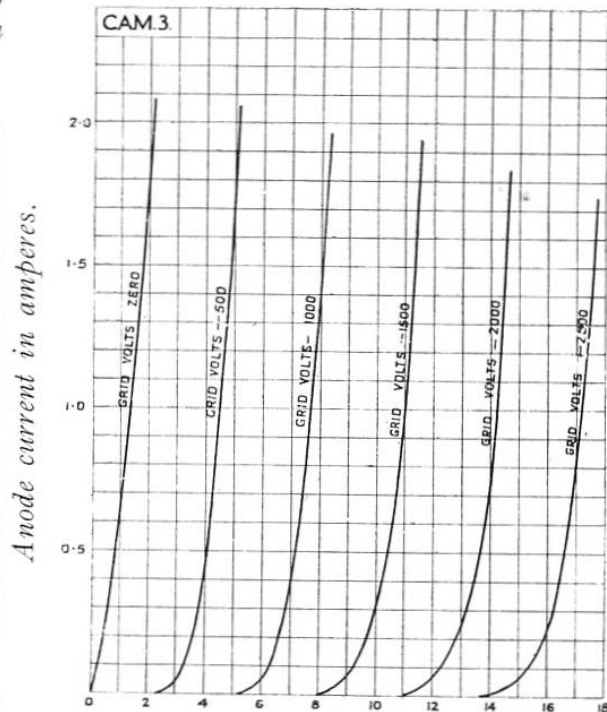


Anode potential in kilovolts.

Marked volts to be decreased by above amount.

Marked volts to be increased by above amount.

3504



Anode potential in kilovolts.

2742

Characteristic Curves of Average Valve

TYPE C.A.M.3