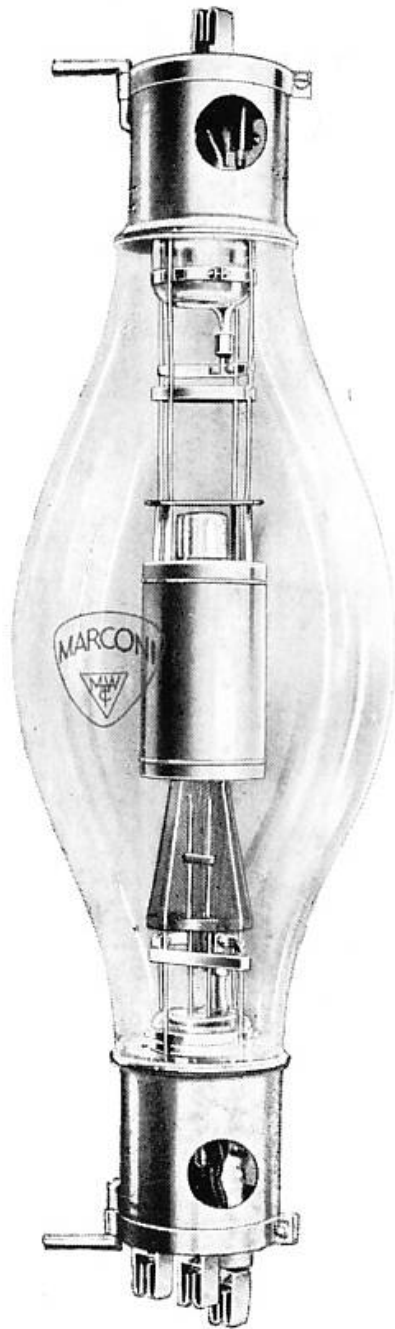


# Transmitting Valve

TYPE M.T.13  
(Molybdenum Electrodes)



(Approximate overall dimensions: <sup>3717</sup> 680 × 192 m/m.)

A transmitting valve suitable for use as an oscillator or magnifier in short wave telegraph transmitters. The normal input at wavelengths not less than 15 metres is 400 milliamperes mean anode current at 5,000 anode volts D.C.

At wavelengths greater than 100 metres the normal input is 400 milliamperes mean anode current at 10,000 anode volts D.C.

Forced air cooling of the filament and anode foot tubes is essential. A nozzle pressure of 0.25 lbs./sq. inch is recommended.

Continuous anode dissipation under oscillating conditions 800 watts. *Marked Volts.* Individual valves are marked with the filament voltage which gives 2.0 amperes emission at 90 per cent. saturation.

#### Approximate Data :

Filament volts ...	...	16.0	Emission amperes at 90	
Filament current (amps.)		22.5	per cent. saturation ...	2.0
Anode volts D.C.	5,000—10,000		*Amplification factor ...	40
			*Impedance (ohms) ...	17,800

\*Taken about anode volts 5,500 and anode current 200 milliamperes.

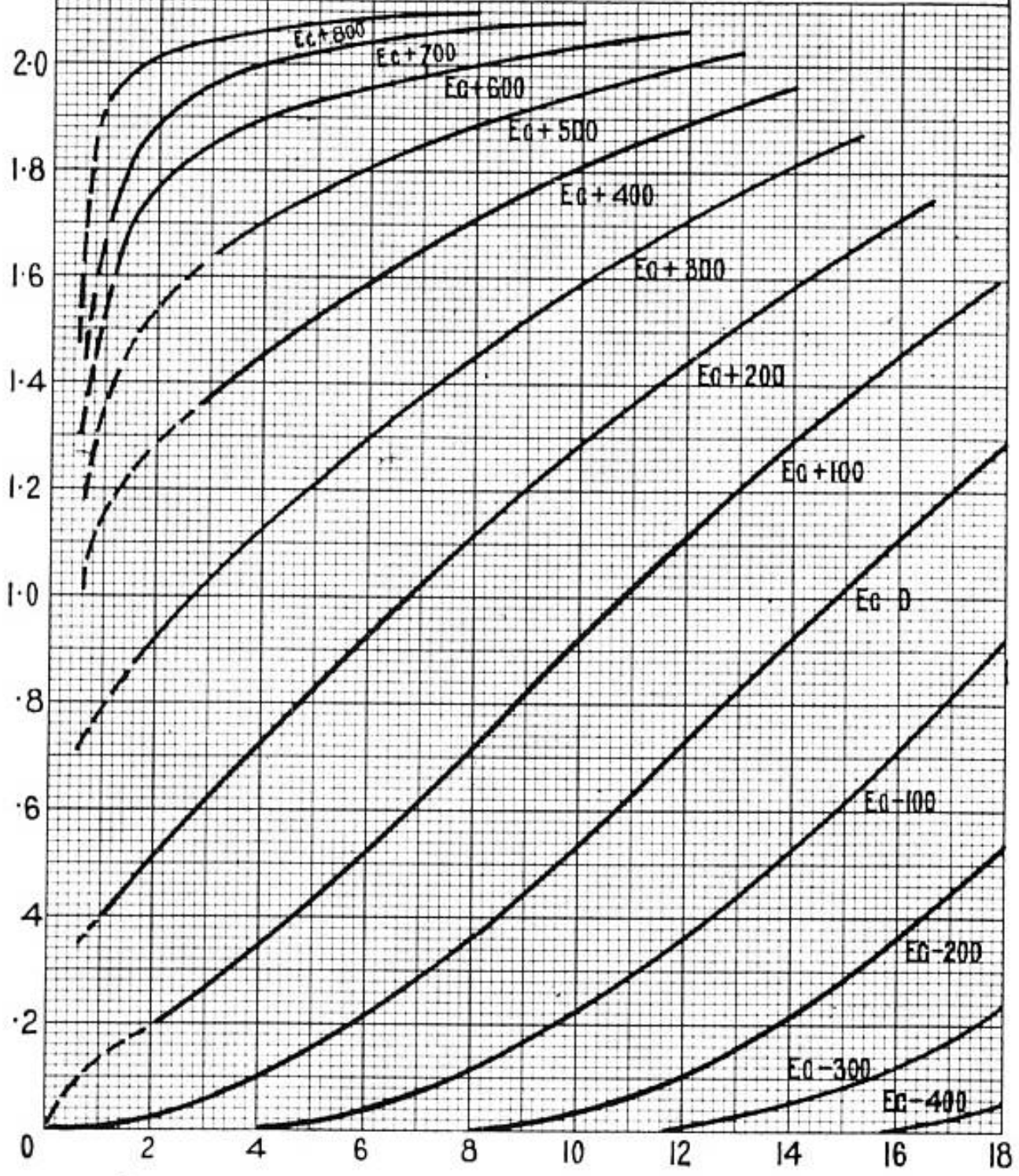
Code Word : IWCUY

MT13

APPROXIMATE DATA

FILAMENT VOLTS	$E_f$	16.0	AT $E_a$ 5500 & $I_a$ 200
FILAMENT CURRENT	$I_f$	22.5	AMPLIFICATION FACTOR $M$ 40
ANODE VOLTS ( $E_a$ ) MAX AT	$\lambda$	15-100M 5000	IMPEDANCE $R$ 17800
		$\lambda > 100M$ 10000	

Anode current in amperes.



3718

Anode potential in kilovolts.

Characteristic Curves of Average Valve.

TYPE M.T.13