

Transmitting Valve

TYPE A.C.S.1

(Air-Cooled-Anode Dull Emitter Type).



(Approximate overall dimensions : $255 \times 91 \frac{3894}{m/ms}$.)

A four electrode screen grid transmitting valve in which the anode forms part of the envelope and is designed for air cooling. In operation free air circulation is essential.

When used in a suitable circuit as an unmodulated Class C amplifying valve at wavelengths not less than 100 metres, the normal input is 75 milliamperes mean anode current at 2,000 anode volts D.C. At lesser wavelengths the input must be reduced, and at 15 metres the input should not exceed 62 milliamperes mean anode current at 2,000 anode volts D.C.

The maximum permissible anode dissipation under oscillating conditions is 75 watts.

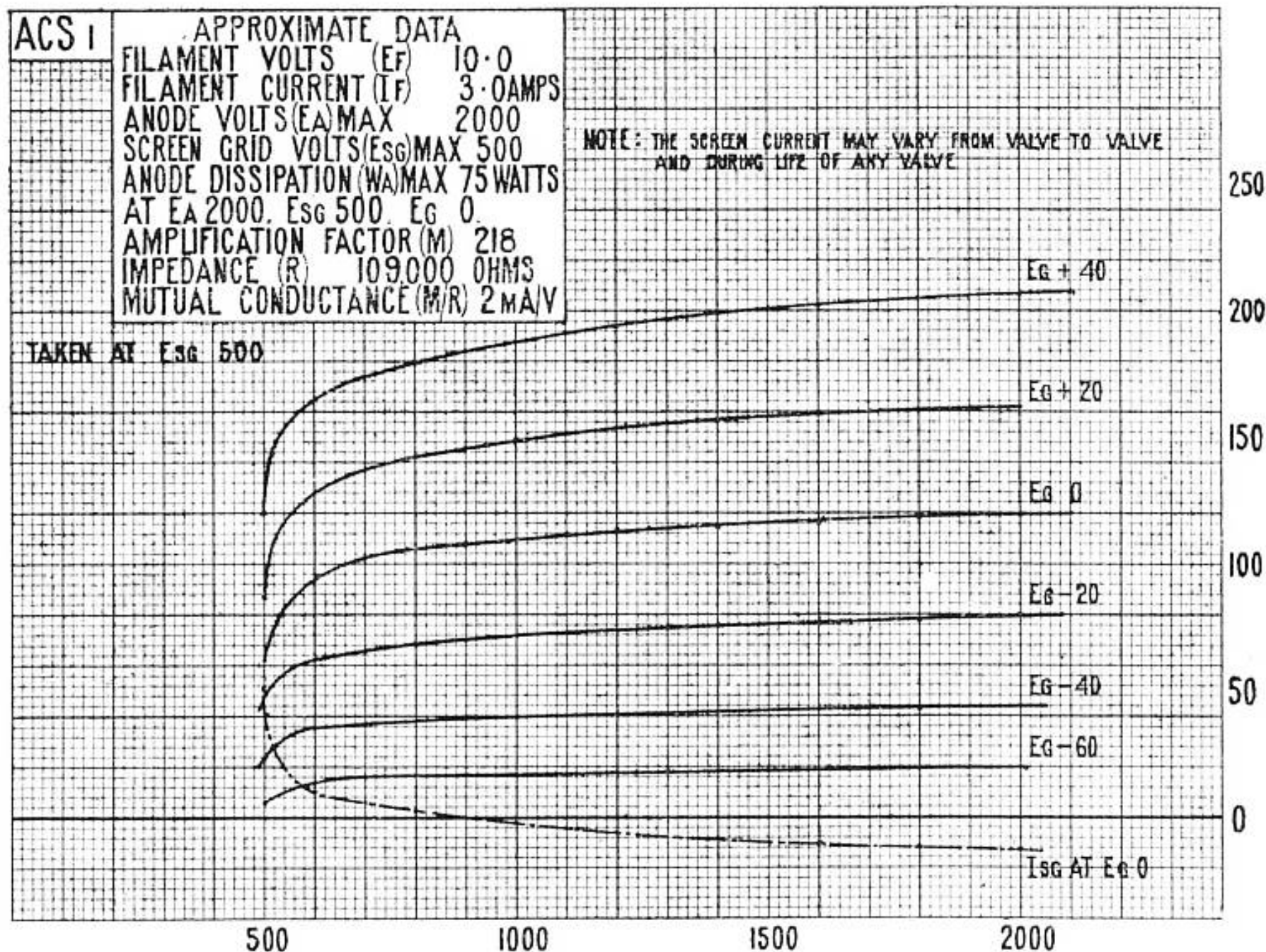
The screen potential should not exceed 500 volts and should be obtained direct from a D.C. voltage supply or from a suitably designed potentiometer, and not through a series resistance from the anode supply. The D.C. screen current should not exceed 20 milliamperes.

Approximate Data :

Filament volts	10.0	Screen volts max.	500
Filament amperes	3.0	*Mutual conductance (Ma/v)	2.0
Anode volts max. (D.C.)	2,000			

* Taken about anode volts 2,000, screen grid volts 500 and grid volts 0.

Anode current in milliamperes.



Screen grid current in milliamperes.

3895

Anode potential in volts.

Characteristic Curves of Average Valve.

TYPE A.C.S.I