

4305-A VALVE

TETRODE.

SPECIFICATION.

Cathode.

Thoriated tungsten filament.

Constant voltage type.

Base.

American medium 4-pin. Screen, anode and filament centre connections made to tungsten rods brought out separately through top of bulb.

Dimensions.

Max. overall length $7\frac{5}{16}"$ (19.3 cms.)Max. Diameter $2\frac{13}{32}"$ (6.1 cms.)

Net weight 0.2 lbs. (90 gms.)

Constants.

Filament voltage 10 volts

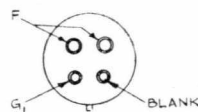
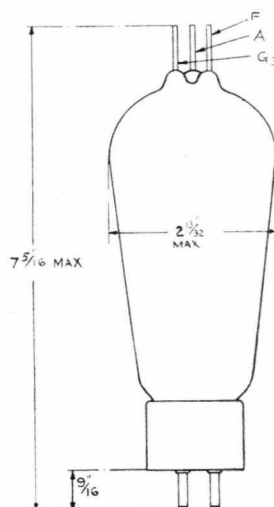
Nominal filament current 3.1 amps.

*Amplification factor 56

*Impedance 40,000 ohms

*Mutual conductance 1.4 mA. per volt

Total emission 1 amp.

Grid-anode capacity $0.14 \mu\text{F}$.Input capacity $10.5 \mu\text{F}$.Output capacity $5.4 \mu\text{F}$.* at $V_p = 1,000$ volts, $I_p = 60$ mA.

LIMITING CONDITIONS FOR SAFE OPERATION.

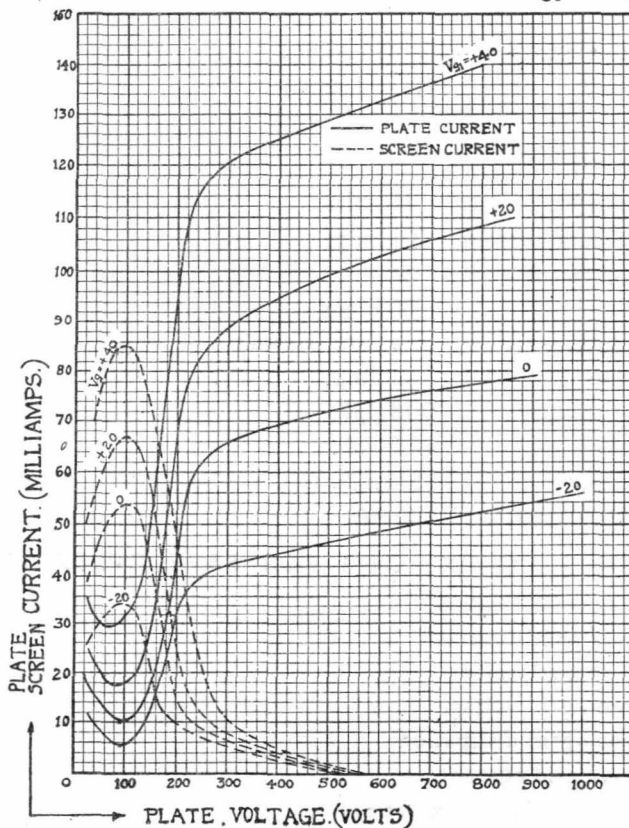
Maximum direct anode voltage	1,000 volts
Maximum direct anode current	0.125 amps.
Maximum anode dissipation	60 watts
Maximum screen-grid voltage	200 volts
Maximum screen-grid dissipation	6 watts
Maximum direct grid current	0.040 amps.
Maximum frequency for above ratings	50 Mc.
Maximum anode voltage for frequency of 100 Mc.	500 volts

—Standard Valves—

TYPICAL OPERATING CONDITIONS. RADIO FREQUENCY OPERATION.

	Class B Telephony		Class C Telephony		Class C Telephony	
	Modulated Carrier applied to grid		Subject to anode modulation		Unmodulated	
Direct anode voltage	1,000	750	800	500	1,000	750 volts
Control grid bias	—135	—100	—270	—200	—200	—150 to —200 volts
Direct screen-grid voltage	200	150	200	200	200	200 volts
Direct anode current	90	120	125	125	125	125 mA.
Anode dissipation	60	60	30	30	40	29 watts
Carrier output	30	30	70	42	85	65 watts

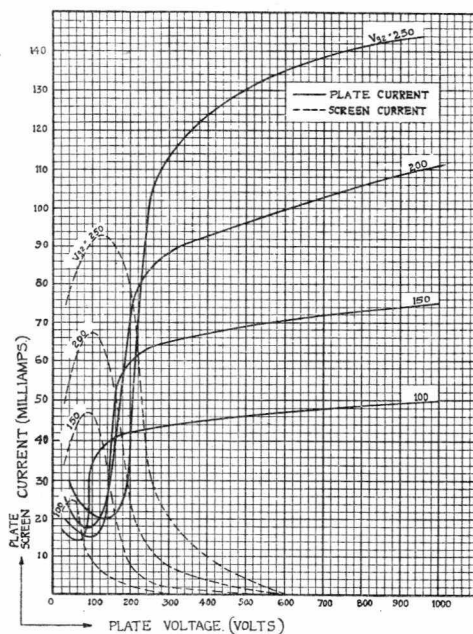
These curves are taken at :— $V_F = 10.0$ volts D.C. $V_{g2} = 200$ volts.



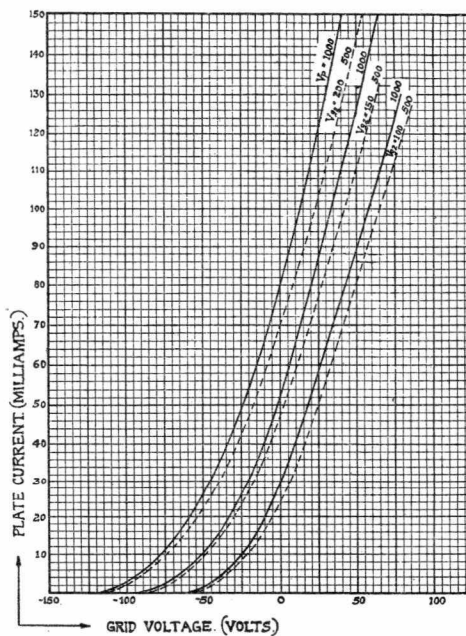
—Standard Valves—

4305-A
Valve

These curves are taken at $:-V_F = 10.0$ volts D.C. $V_{g1} = +20$ volts.



These curves are taken at $:-V_F = 10.0$ volts D.C.



V.4305-A.2
Sept. 1938.

—Bismarck, 1894—