

—Standard Valves—

VALVE TYPE 3A/101-B

(Previously coded VLS.350 valve).

TRIODE.

SPECIFICATION.

Cathode.

Indirectly heated oxide coated.
Constant current type.

Base.

Standard British 5-pin.

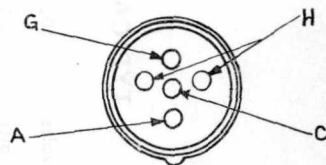
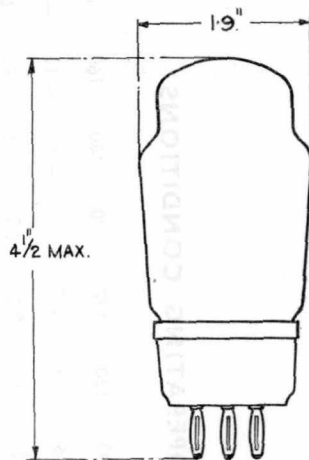
Dimensions.

Maximum overall length $4\frac{1}{2}$ " (11.4 cms.)
Bulb diameter 1.9" (4.9 cms.)
Net weight 0.11 lb. (50 gms.)

Constants.

Heater current	1.0 amps.
Nominal heater voltage	4.5 volts
*Impedance	5,700 ohms.
*Amplification factor	5.8
*Mutual conductance	1.0 mA per volt
Anode-grid capacity	4.2 $\mu\mu\text{F}$.
Grid-cathode capacity	4.2 $\mu\mu\text{F}$.
Anode-cathode capacity	4.4 $\mu\mu\text{F}$.

* at $V_p = 130$ volts, $V_g = -9$ volts.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage
Maximum anode dissipation

200 volts
5 watts

Tentative data

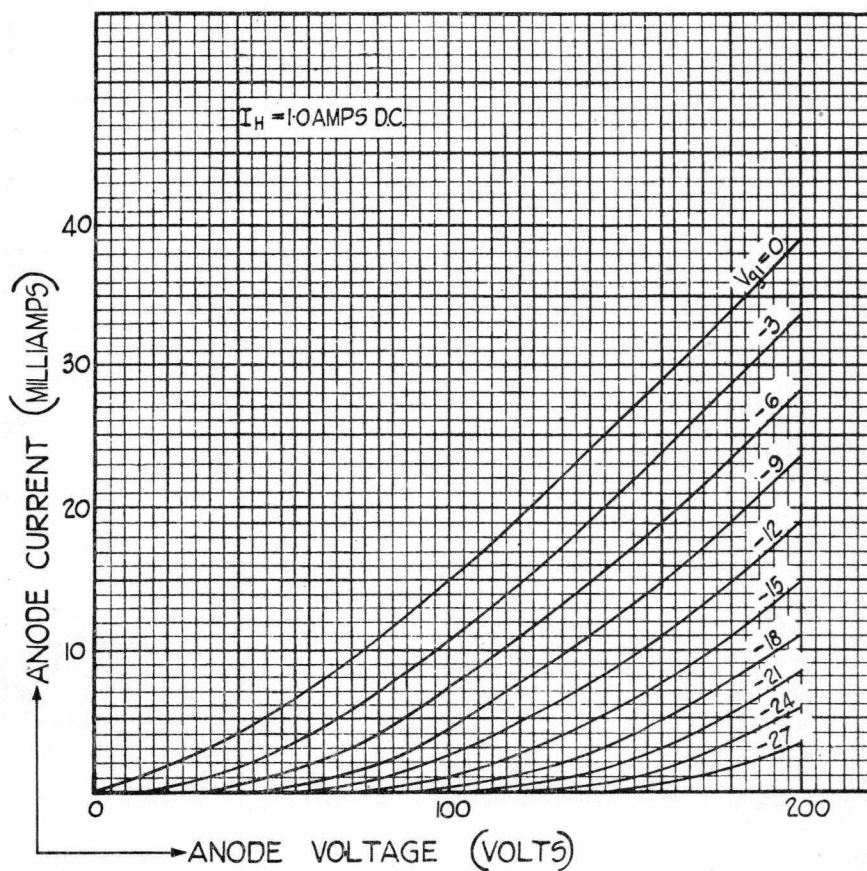
W.3A/101-B.1
March, 1939

—Standard Valves—

TYPICAL OPERATING CONDITIONS.

Anode voltage	volts	100	100	130	130	160	160	160	160	190	190	190
Grid bias	volts	—4	—6	—9	—12	—10	—12	—16	—16	—16	—18	—20
Anode current	mA.	10	13	9.5	6.2	14	11	6.8	12	12	9.5	8
Anode resistance	Z_o	5,000	5,000	5,700	6,500	5,000	5,500	6,500	5,000	5,000	5,300	6,000
For load resistance, $R_L = Z_o$												
Output	mW.	14	26	35	90	100	130	175	235	265	285	
Total harmonic distortion	db	38	29	29	22	30	22	20	22	20	18	
For load resistance, $R_L = 2 Z_o$												
Output	mW.	12	24	30	80	90	115	155	210	235	250	
Total harmonic distortion	db.	35	35	37	26	33	28	23	27	25	22	

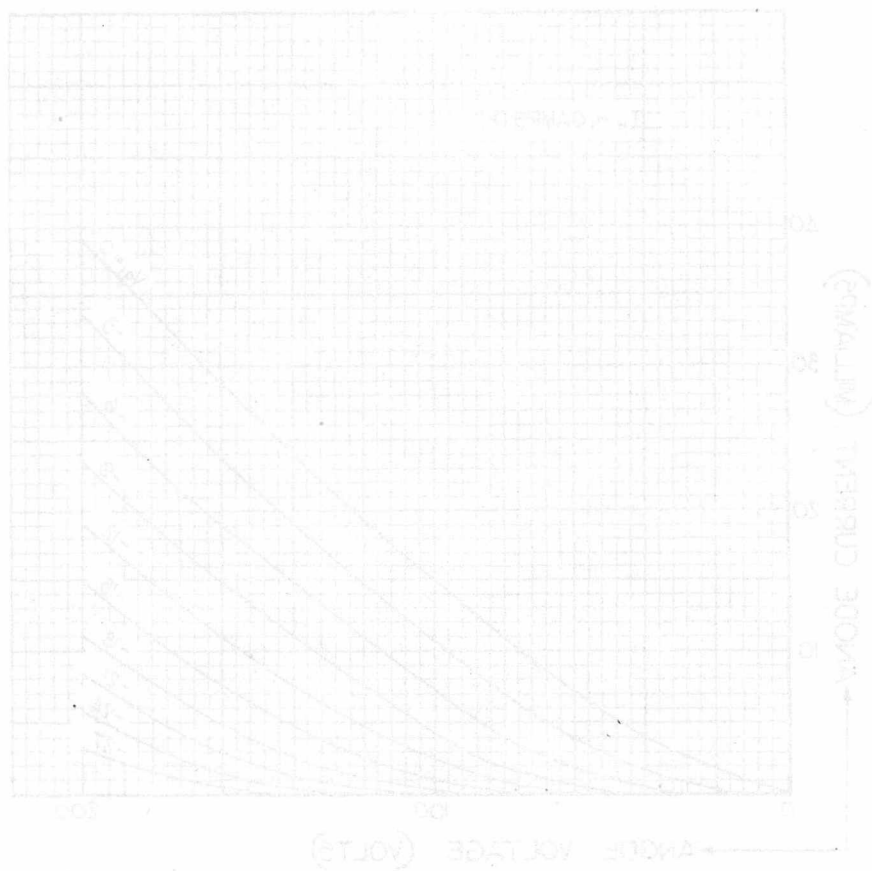
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