

—Standard Valves—

4015-A
Valve

4015-A VALVE

TRIODE.

SPECIFICATION.

Cathode.

Pure tungsten filament.
Constant voltage type.

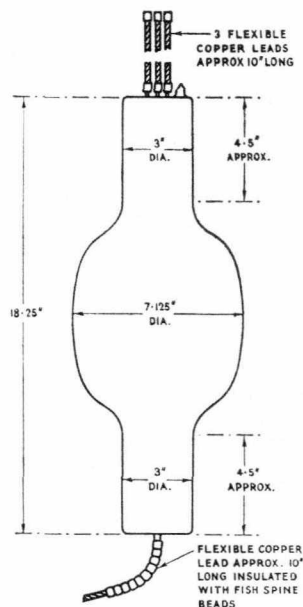
Dimensions.

Overall length $18\frac{1}{4}"$ (46.4 cms.)
Maximum diameter $7\frac{1}{8}"$ (18.1 cms.)
Net weight $3\frac{1}{4}$ lbs. (1,500 gms).

Constants.

Filament voltage 10.5–11.5 volts
(exact filament voltage marked
on bulb)
Nominal filament current 41 amps.
Total emission 2.5 amps.
*Impedance 8,000 ohms
*Amplification factor 20
*Mutual conductance 2.5 mA. per volt
Grid–anode capacity $10.3 \mu\text{F}$.
Anode–filament capacity $0.5 \mu\text{F}$.
Grid–filament capacity $15.2 \mu\text{F}$.

* at $V_p = 4,000$ volts, $I_p = 0.3$ amps.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	5,000 volts
Maximum direct anode current	0.6 amps.
Maximum anode dissipation	1.5 Kw.
Maximum direct grid current	0.080 amps.

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TYPICAL OPERATING CONDITIONS.

	Class B A.F. Amp. and Mod. For balanced 2 valve circuit.
Direct anode voltage	5,000 volts
Grid bias	—100 to —150 volts
Anode current per valve—zero signal	0.12 amps.
Anode current per valve—maximum signal	0.6 amps.
Anode dissipation	1.4 Kw.
Load resistance—anode to anode	7,100 ohms
Maximum output—2 valves	3.2 Kw.

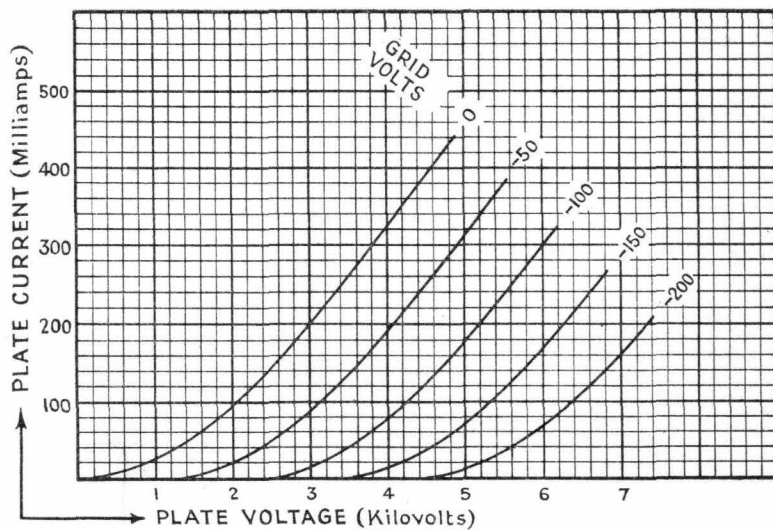
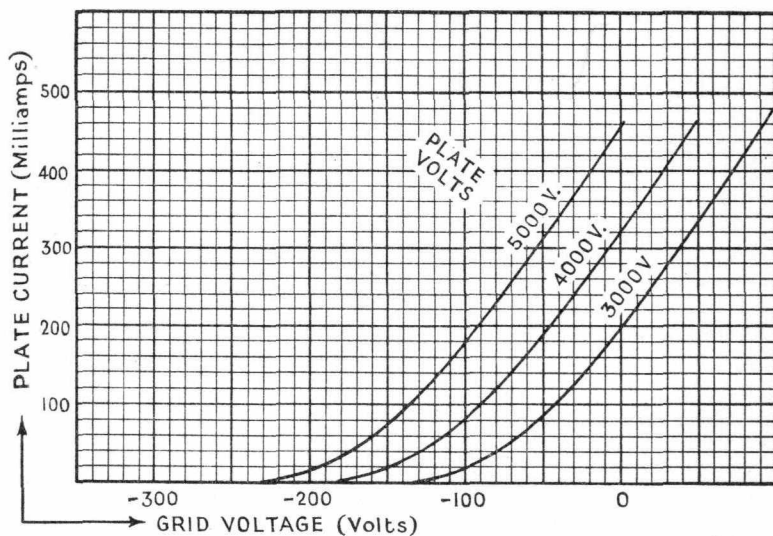
RADIO FREQUENCY OPERATION.

	Class B Telephony	Class C Telephony	Class C Telegraphy
	Modulated Carrier applied to grid	Subject to anode modulation	Unmodulated
Direct anode voltage	5,000	4,000	5,000 volts
Direct anode current	0.28	0.3	0.6 amps.
Grid bias	—190	—350	—450 to —600 volts
Anode dissipation	980	400	1,000 watts
Carrier output	420	800	2,000 watts

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These curves are taken with A.C. filament heating, grid and anode voltages being referred to the centre point of the filament.



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Standard Values

Standard Values of the various physical constants and properties of the elements and compounds.

