

—Standard Valves—

4053-A
Valve

4053-A VALVE

SINGLE ENDED WATER COOLED TRIODE.

SPECIFICATION.

Cathode.

Pure Tungsten filament.
Constant voltage type.

Water Jacket.

Type PL.120705/B.

Water Flow.

7 gallons per minute.

Dimensions.

Overall length	29.2" (74 cms.)
Bulb diameter	3½" (8.9 cms.)
Net weight	4½ lbs. (2,100 gms.)

Constants.

Filament voltage 17.5—19.5 volts
(exact filament voltages for 3 amps.
and 7 amps. emission are marked
on bulb)

Nominal filament
current 64.5—66.8 amps.

Total emission 3—7 amps.

*Impedance 830 ohms

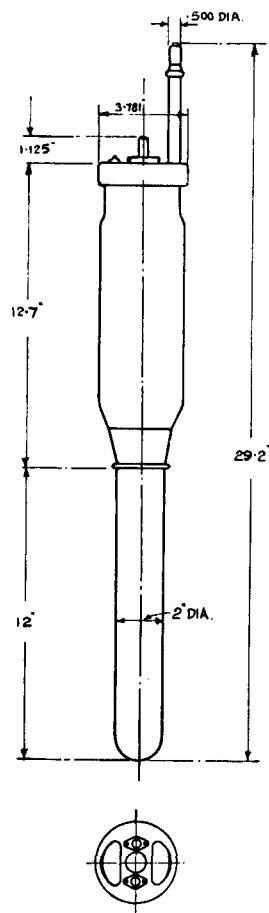
*Amplification factor 6.5

Grid-anode capacity 40.5 $\mu\mu\text{F}$.

Anode-filament capacity 3.5 $\mu\mu\text{F}$.

Grid-filament capacity 36.5 $\mu\mu\text{F}$.

* at anode current of 1 amp.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage

11,000 volts

Maximum anode dissipation

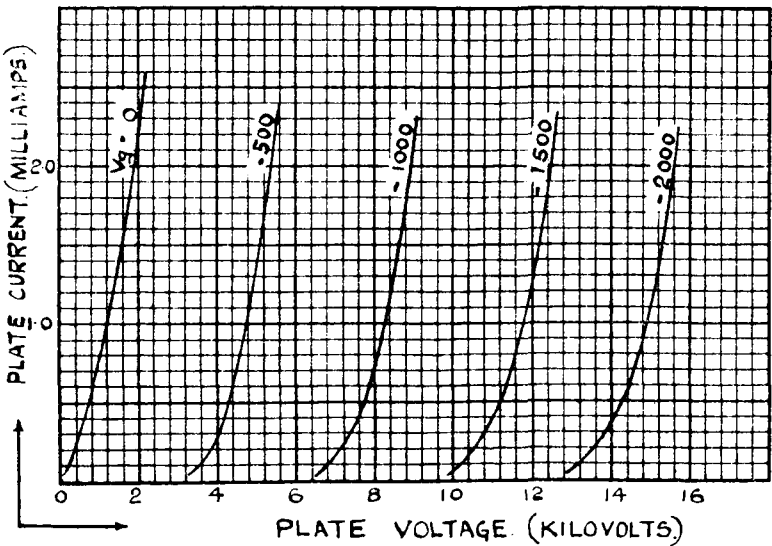
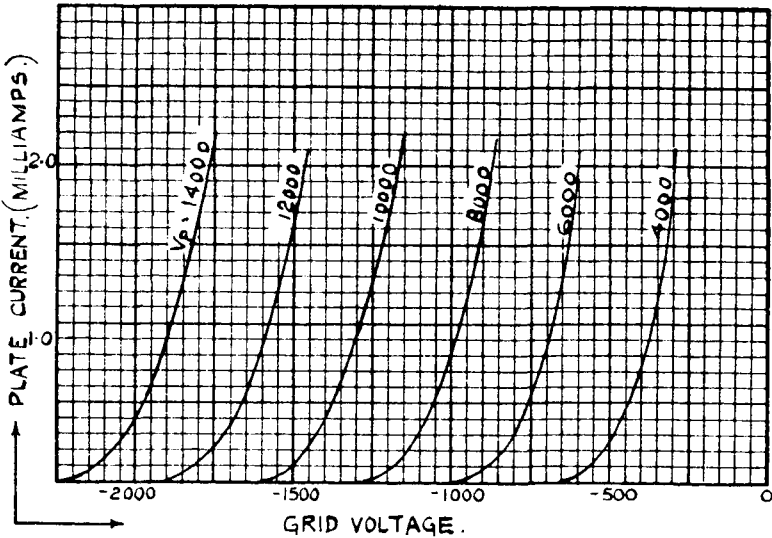
12 Kw.

V.4053-A.1
Nov. 1937

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TYPICAL OPERATING CONDITIONS.

Class A — Audio frequency Modulator For Series Modulation	
Total H.T. voltage across mod. and mod. amp. in series	18,000 volts
Anode voltage	12,000 volts
Anode current	0.75 amps.
Grid bias	—1,600 to —1,800 volts
Peak AF grid voltage	850 volts
Peak AF output voltage	6,000 volts
AF output power	4.5 Kw.



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