

—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 $3\frac{1}{2}$ " (8.9 cms.)
Net weight $4\frac{1}{2}$ 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

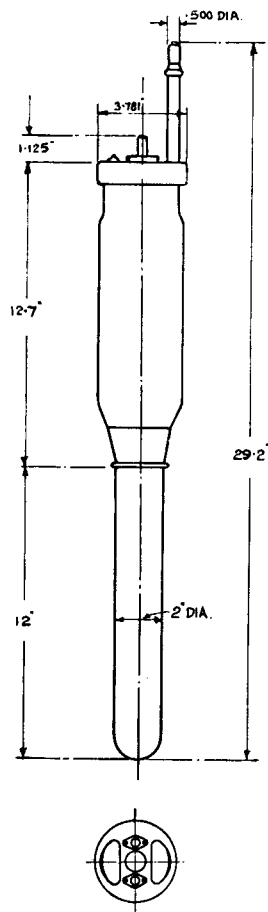
*Amplification factor 6.5

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
Maximum anode dissipation

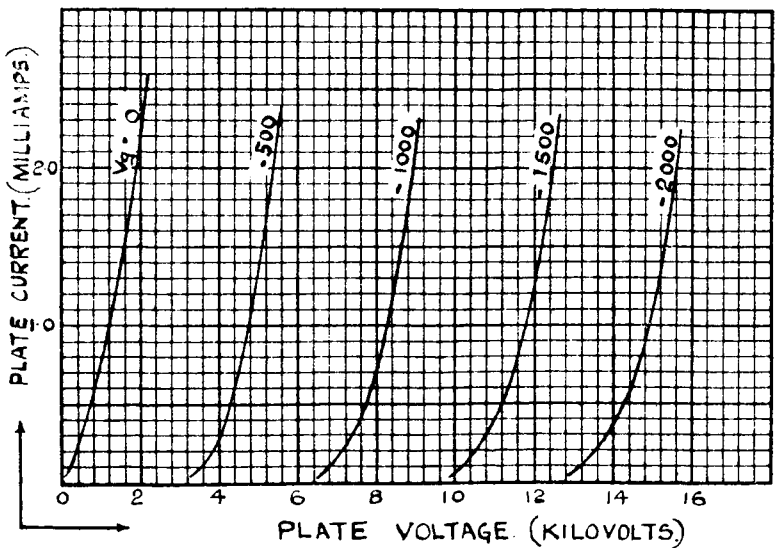
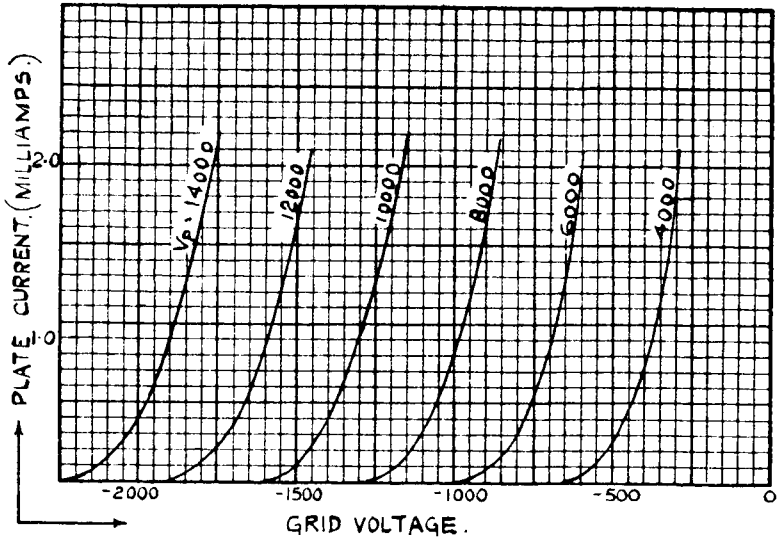
11,000 volts
12 Kw.

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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