

—Standard Valves—

4006-A VALVE

SINGLE ENDED WATER COOLED TRIODE.

SPECIFICATION.

Cathode.

Pure Tungsten Filament.
Constant Voltage Type.

Water Jacket.

Type MS.1362 Grp. I for anode dissipation up to 6 Kw.

Type MS.1362 Grp.20 used for below panel connection for anode dissipation up to 6 Kw.

Type 223 LU 1A for anode dissipation over 6 Kw.

Water Flow.

5 gallons per minute.

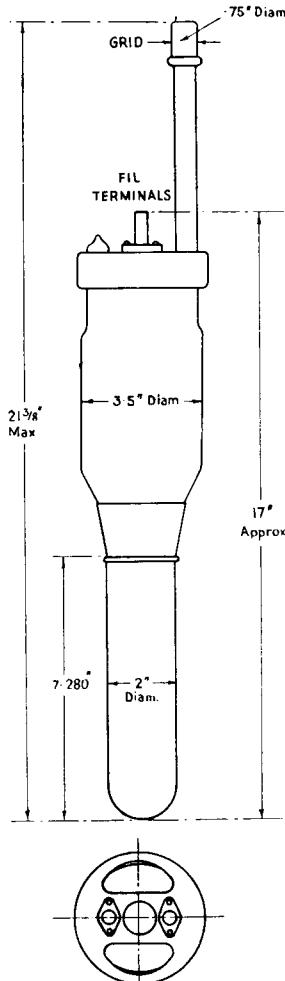
Dimensions.

Overall length	21 $\frac{3}{8}$ " (54 cms.).
Bulb diameter	3 $\frac{1}{2}$ " (8.9 cms.).
Net weight	2 $\frac{1}{2}$ lb. (1,150 gms.)

Constants.

Filament voltage	19.5-20.5 volts
(exact filament voltage marked on bulb)	
Nominal filament current	50 amps.
Total emission	6 amps.
*Impedance	7,500 ohms.
*Amplification factor	40
Grid-anode capacity	20.5 $\mu\mu$ F.
Anode-filament capacity	3 $\mu\mu$ F.
Grid-filament capacity	20 $\mu\mu$ F.

* at anode current of 0.75 amp.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	13,000 volts.
Maximum direct anode voltage for anode modulation	9,000 volts.
Maximum direct anode current	1.5 amps.
Maximum anode dissipation	10 Kw.
Maximum grid dissipation	200 watts.
Maximum frequency for above ratings	3 Mc.
Maximum anode voltage for frequency of 6 Mc.	7,500 volts.

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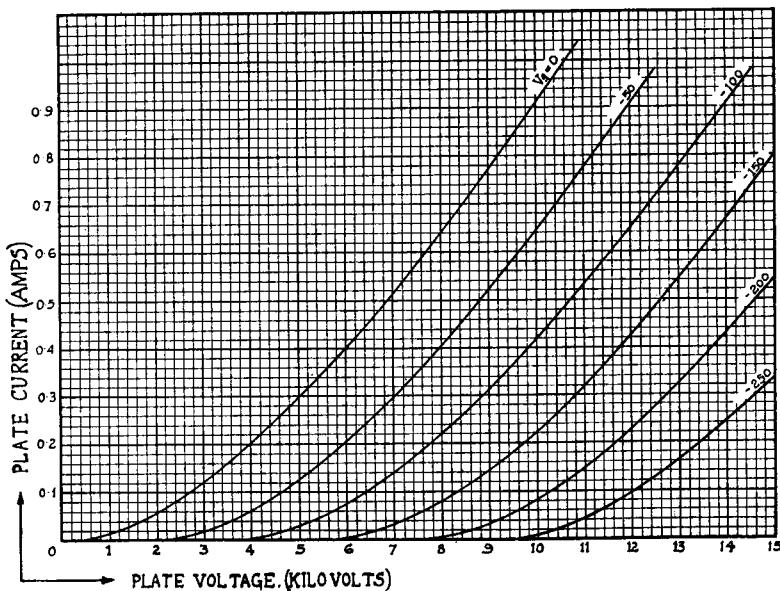
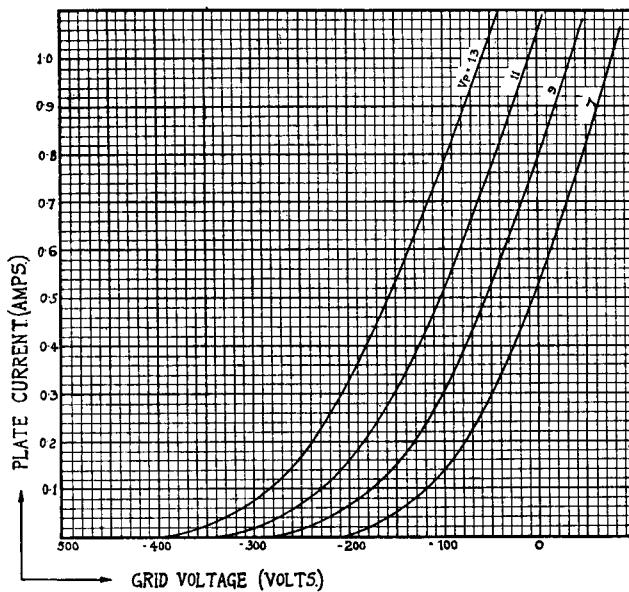
TYPICAL OPERATING CONDITIONS

		Class B A.F. Amp. For balanced 2 valve circuit.
Direct anode voltage Grid Bias Direct anode current per valve zero signal Direct anode current per valve maximum signal Load resistance—anode to anode Maximum signal output—2 valves Anode dissipation		10,000 volts —120 to —170 volts 0.25 amps. 1.2 amps. 7,450 ohms. 13.2 Kw. 5.4 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 Direct anode current Grid bias	10,000 0.75 —210	7,000 0.75 —350	10,000 volts 1.5 amps. —500 to —700 volts
Anode dissipation Carrier output	5 2.5	1.75 3.5	5 Kw. 10 Kw.

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