

—Standard Valves—

4270-A
Valve

4270-A VALVE

TRIODE.

SPECIFICATION.

Cathode.

Thoriated Tungsten filament.
Constant voltage type.

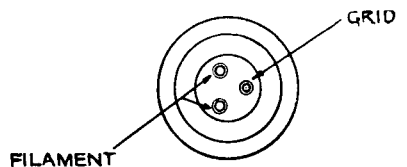
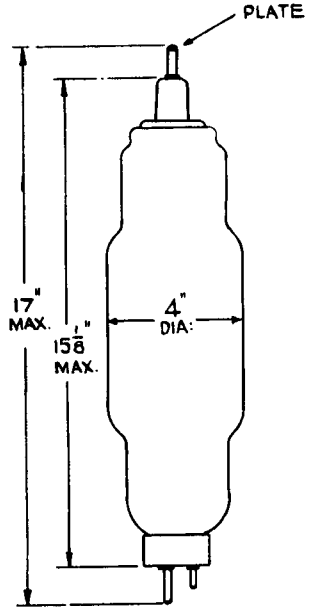
Dimensions.

Overall length 17" (43 cms.)
Maximum diameter 4" (10.2 cms.)
Net weight 1½ lbs. (600 gms.)

Constants.

Filament voltage 10 volts
Nominal filament current 9.75 amps.
Total emission 4.0 amps.
*Impedance 2,800 ohms
*Amplification factor 16
Grid-anode capacity 21 $\mu\mu\text{F}$.
Anode-filament capacity 2 $\mu\mu\text{F}$.
Grid-filament capacity 18 $\mu\mu\text{F}$.

* at anode current of 0.12 amps.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	3,000 volts
Maximum direct anode current	0.375 amps.
Maximum anode dissipation	350 watts
Maximum direct grid current	0.075 amps.
Maximum frequency for above ratings	7.5 Mc.
Maximum anode voltage for frequency of 22.5 Mc.	1,000 volts

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TYPICAL OPERATING CONDITIONS.

	Class A A.F. Amp. or Mod.		
Direct anode voltage	2,500	2,000	volts
Grid bias	—130	—95	volts
Direct anode current	0.120	0.150	amps.
Anode dissipation	300	300	watts
Load impedance	15,000	10,000	ohms
Undistorted output	90	70	watts

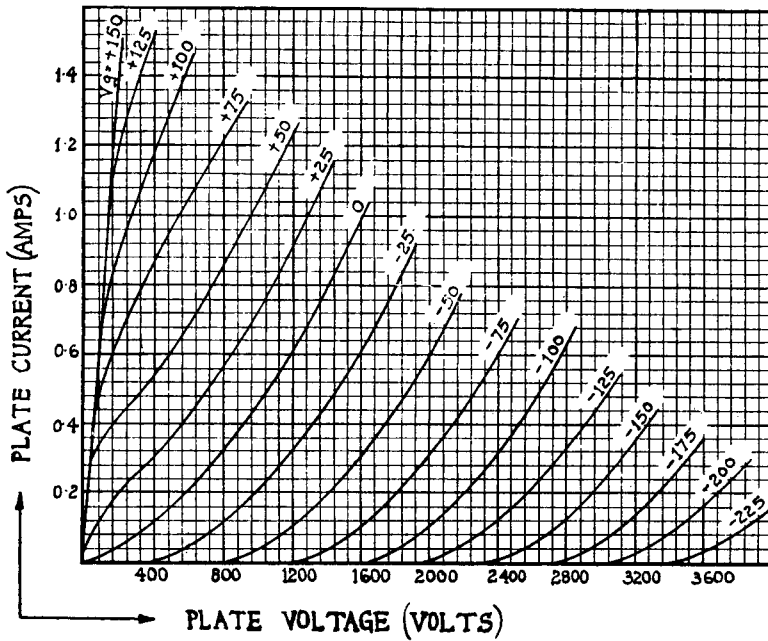
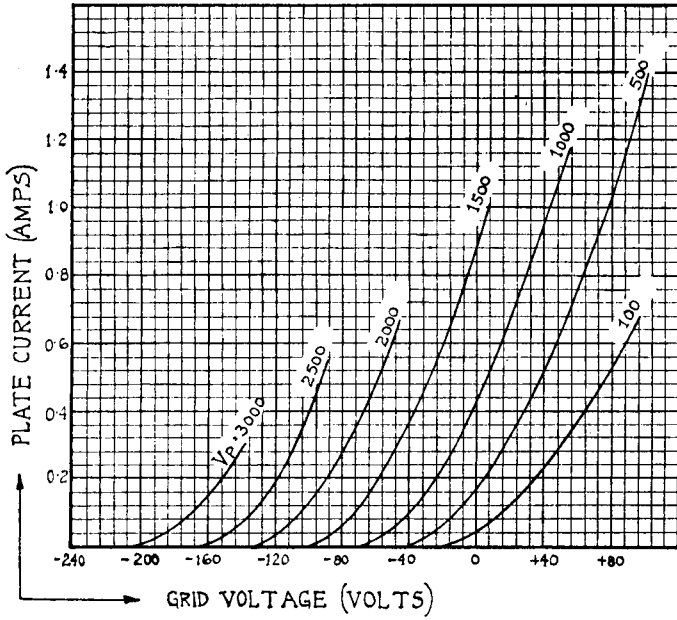
	Class B A.F. Amp. and Mod. For balanced 2 valve circuit		
Direct anode voltage	2,500	2,000	volts
Grid bias	—140	—105	volts
Anode current per valve—zero signal	0.060	0.060	amps.
Anode current per valve—maximum signal	0.375	0.375	amps.
Load resistance—anode to anode	8,000	6,000	ohms
Anode dissipation	350	350	watts
Maximum output—2 valves	1,000	850	watts

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	3,000	2,500	2,250	1,750	3,000	1,750	volts
Direct anode current	0.175	0.210	0.300	0.350	0.350	0.350	amps.
Grid bias	—180	—140	—300	—240	—315	—225	to
Carrier output	175	175	450	410	—420	—340	volts
Anode dissipation	350	350	225	200	700	585	watts
					350	290	watts

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