

—Standard Valves—

3068-A
Valve

3068-A VALVE

SINGLE ENDED WATER COOLED TRIODE.
FOR THREE PHASE OPERATION.

SPECIFICATION.

Cathode.

Pure Tungsten filament.
Constant voltage type.

Water Jacket.

Type PL.122642/A.

Water Flow.

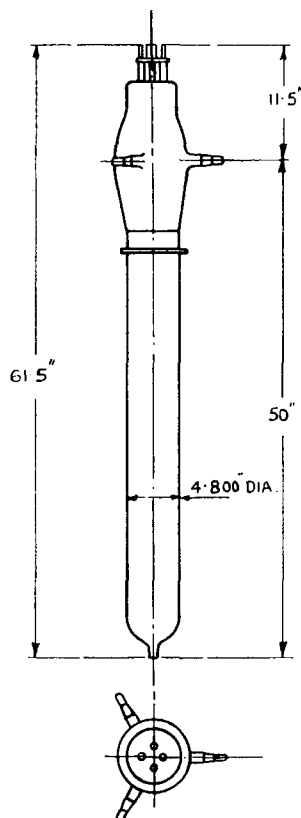
40 gallons per minute.

Dimensions.

Overall length $61\frac{1}{2}"$ (156 cms.)
Anode diameter $4.8"$ (12.2 cms.)
Net Weight 40 lbs. (18,000 gms.)

Constants.

Filament voltage 30 volts
Nominal filament current 320 amps.
Total emission 100 amps.
Impedance 900 ohms
Amplification factor 36
Grid-anode capacity $145 \mu\mu\text{F.}$
Anode-filament capacity $38 \mu\mu\text{F.}$
Grid-filament capacity $110 \mu\mu\text{F.}$



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct voltage	17,500 volts
Maximum direct anode current	25 amps.
Maximum anode dissipation	160 Kw.
Maximum grid dissipation	3,000 watts
Maximum frequency for above ratings	2 Mc.
Maximum anode voltage for frequency of 22 Mc.	15,000 volts

Note :—All enquiries should be addressed to :—

Les Laboratoires L.M.T.,
46 Avenue de Breteuil,
Paris.

Tentative data

V.3068-A.1
Nov. 1937

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TYPICAL OPERATING CONDITIONS.

	Class B A.F. Amp. and Mod. For balanced 2 valve circuit
Direct anode voltage	12.5 Kv.
Grid bias	—250 volts
Direct anode current—zero signal	2.6 amps.
Direct anode current—maximum signal	13 amps.
Anode dissipation	73 Kw.
Load resistance—anode to anode	850 ohms
Maximum output—2 valves	180 Kw.

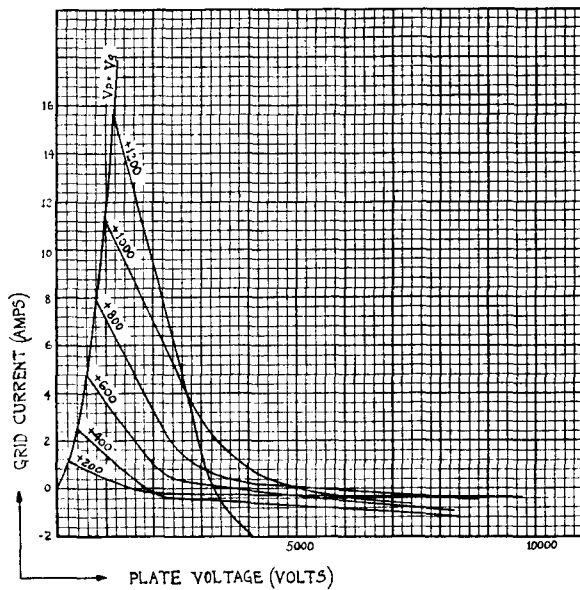
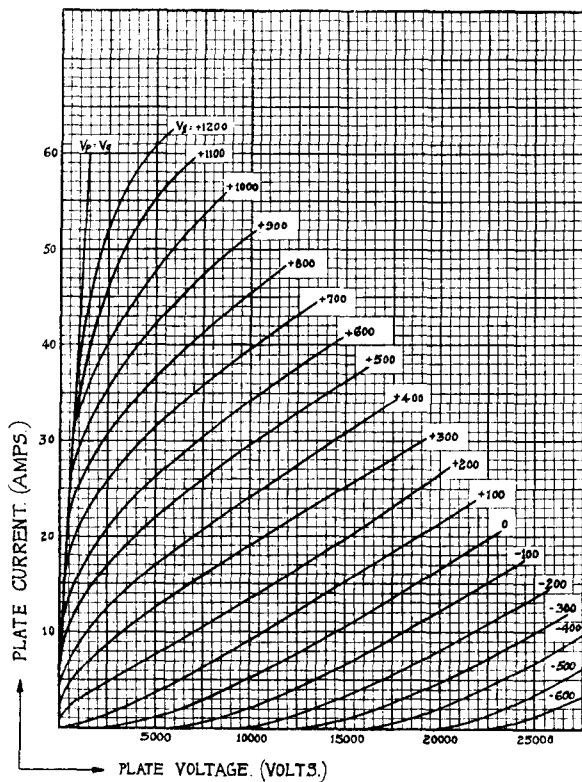
RADIO FREQUENCY OPERATION.

	Class B Telephony			
	Modulated Carrier applied to grid			
Direct anode voltage	17.5	15	12	10 Kv.
Direct anode current	9.6	9.6	9.6	9.6 amps.
Grid bias	—400	—300	—200	—150 volts
Power output	50	43	34	24 Kw.
Anode dissipation	118	101	81	72 Kw.
FREQUENCY	2	12	19	22 Mc.

	Class C Telephony				Class C Telegraphy			
	Subject to anode modulated				Unmodulated			
Direct anode voltage	12	11	10	9	17.5	15	12	10 Kv.
Direct anode current	10	10	10	10	19.2	19.2	19.2	19.2 amp.
Grid bias	—500	—450	—400	—350	—500	—300	—200	—150 volts
Carrier output	80	70	60	40	200	172	136	96 Kw.
Anode dissipation	40	40	40	50	136	112	94	96 Kw.
FREQUENCY	2	12	19	22	2	12	19	22 Mc.

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