—Standard Valves—

4016-B VALVE

TRIODE.

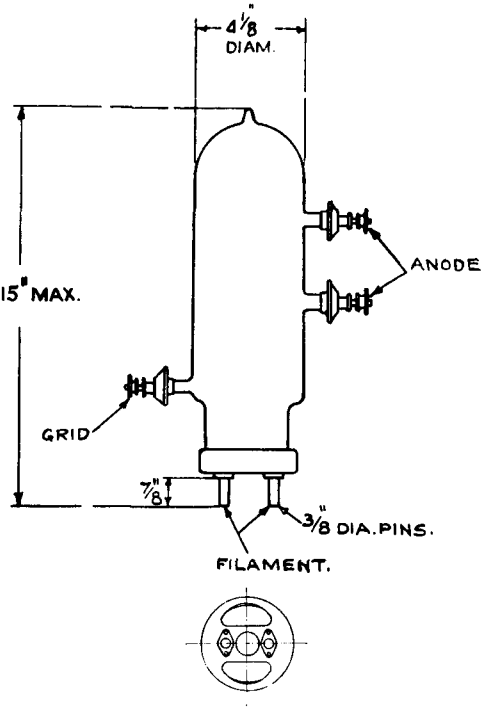
SPECIFICATION.

Cathode.

Pure Tungsten filament.
Constant voltage type.

Dimensions.

Overall length	15″ (38 cms.)
Bulb diameter	4⅛″ (10·5 cms.)
Net weight	2¼ lbs. (1,000 gms.)



Constants.

Filament voltage	14 volts
Nominal filament current	18 amps.
Total emission	1·2 amp.
*Impedance	7,700 ohms
*Amplification factor	17
*Mutual conductance	2·2 m.a. per volt
Grid-anode capacity	10 $\mu\mu$F.
Anode-filament capacity	2·5 $\mu\mu$F.
Grid-filament capacity	10 $\mu\mu$F.

* *at anode current of* 0·1 *amps,* $Vp = 4{,}000$ *volts.*

LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	4,000 volts
Maximum direct anode current	0·3 amps.
Maximum anode dissipation	400 watts
Maximum grid dissipation	100 watts
Maximum frequency for above ratings	33 Mc.
Maximum anode voltage for frequency of 50 Mc.	3,500 volts

Tentative data.

—Standard Valves—

TYPICAL OPERATING CONDITIONS.

	Class B (A.F. Amp. and Mod.) for balanced 2 valve circuit
Direct anode voltage	4,000 volts
Grid bias	—100 volts
Direct anode current per valve—zero signal	0·03 amps.
Direct anode current per valve—maximum signal	0·16 amps.
Anode dissipation	280 watts
Load resistance—anode to anode	23,000 ohms
Maximum output—2 valves	700 watts

RADIO FREQUENCY OPERATION.

	Class B Telephony Modulated carrier applied to grid			
Direct anode voltage	4,000	4,000	4,000	3,500 volts
Direct anode current	0·12	0·12	0·12	0·10 amps.
Grid bias	—130	—130	—130	—100 volts
Power output	0·15	0·14	0·12	0·10 Kw.
Anode dissipation	0·33	0·34	0·36	0·25 Kw.
FREQUENCY	6	10	33	50 Mc.

	Class C Telephony Subject to anode modulation				Class C Telegraphy Unmodulated			
Direct anode voltage	3,000	3,000	3,000	2,500	4,000	4,000	4,000	3,500 volts
Direct anode current	0·2	0·2	0·2	0·16	0·2	0·2	0·2	0·16 amps.
Grid bias	—200	—200	—200	—150	—300 to —400	—300 to —400	—300 to —400	—250 to —350 volts
Carrier output	0·4	0·375	0·36	0·18	0·5	0·45	0·4	0·3 Kw.
Anode dissipation	0·2	0·225	0·24	0·22	0·3	0·35	0·4	0·22 Kw.
FREQUENCY	6	10	33	50	6	10	33	50 Mc.

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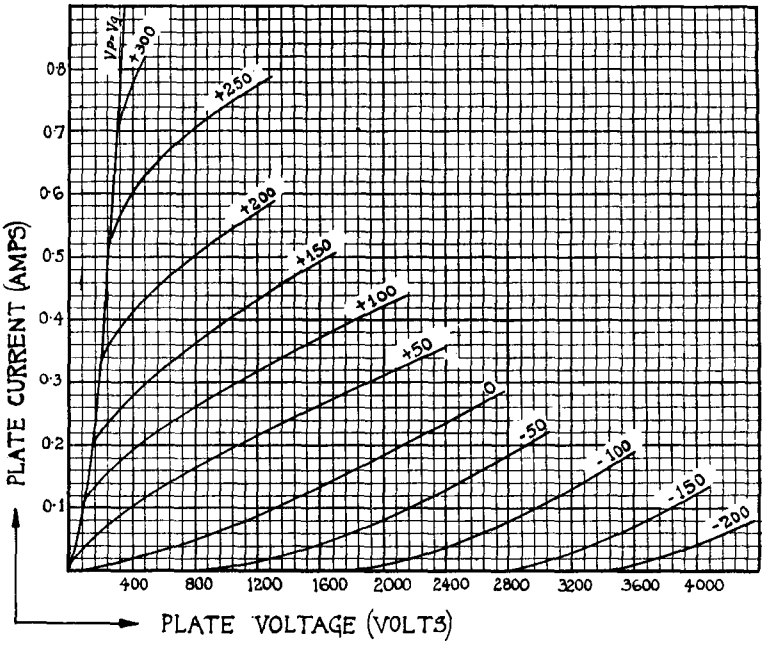

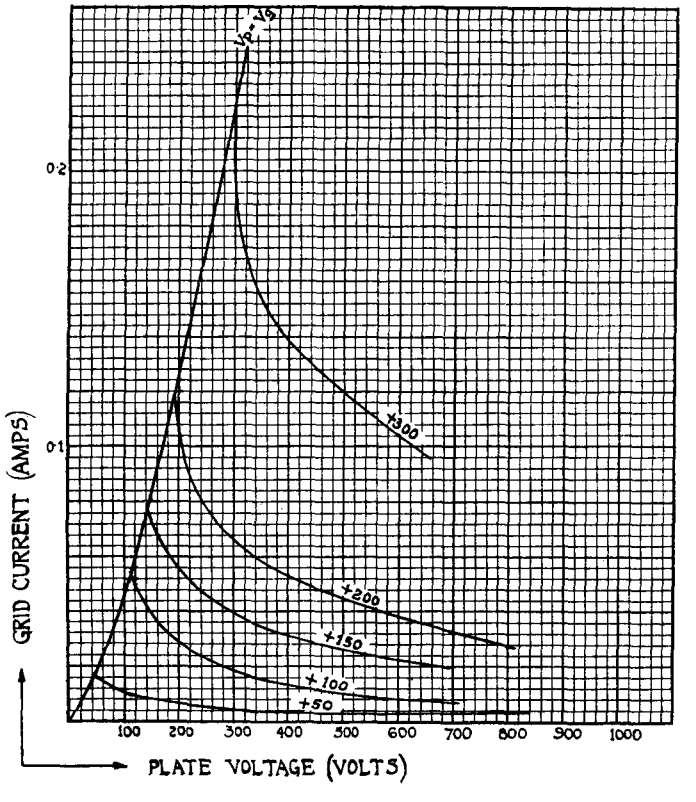

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