

—Standard Valves—

4102-D Valve
-E Valve
-G Valve

4102-D, -E AND -G VALVES

TRIODES.

4102-D, -E, -G valves have similar characteristics.

4102-E valve has a filament designed to reduce sputter noise.

4102-G valve is similar to 4102-E valve but has the anode lead brought out through the stem to increase grid-anode insulation.

SPECIFICATION.

Cathode.

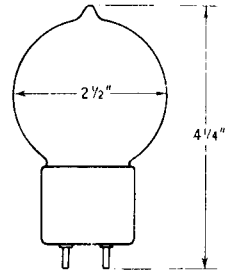
Oxide coated filament.
Constant current type.

Base.

Medium 4-pin bayonet thrust.

Dimensions.

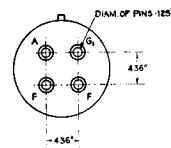
Overall length $4\frac{1}{4}"$ (10.8 cms.)
Bulb diameter $2\frac{1}{2}"$ (6.4 cms.)
Net weight 0.14 lbs. (65 gms.)



Constants.

Filament current 0.97 amps.
Nominal filament voltage 2 volts
*Impedance 60,000 ohms
*Amplification factor 30
*Mutual conductance 0.5 mA. per volt
Grid-anode capacity 5.6 $\mu\mu\text{F}$.
Anode-filament capacity 2.3 $\mu\mu\text{F}$.
Grid-filament capacity 3.8 $\mu\mu\text{F}$.

* at anode current of 0.75 mA.



LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage 190 volts
Maximum direct anode current 1.5 mA.

V.4102-DEG. I
Nov. 1937

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TYPICAL OPERATING CONDITIONS.

Anode voltage	Grid Bias	Anode current	Amplification factor	Anode resistance	Load resistance	Output voltage	Second harmonic
volts	volts	milliamps		ohms rp	R	peak volts	db
130	—2.0	0.36	29.4	80,000	R=rp	27	20
					R=3rp	38	24
					R=5rp	41	25
130	—1.5	0.58	29.8	63,000	R=rp	20	26
					R=3rp	30	31
					R=5rp	34	33
130	—1.0	0.85	30.1	53,000	R=rp	15	33
					R=3rp	20	39
					R=5rp	23	40
160	—3.0	0.34	29.2	81,000	R=rp	40	18
					R=3rp	57	21
					R=5rp	62	22
160	—2.0	0.80	29.9	54,000	R=rp	28	27
					R=3rp	42	33
					R=5rp	45	34
160	—1.0	1.45	30.3	42,000	R=rp	15	38
					R=3rp	21	43
					R=5rp	24	48
*190	—3.0	0.83	29.8	54,000	R=rp	42	23
					R=3rp	63	28
					R=5rp	68	30
*190	—2.0	1.46	30.2	43,000	R=rp	30	31
					R=3rp	43	38
					R=5rp	48	41

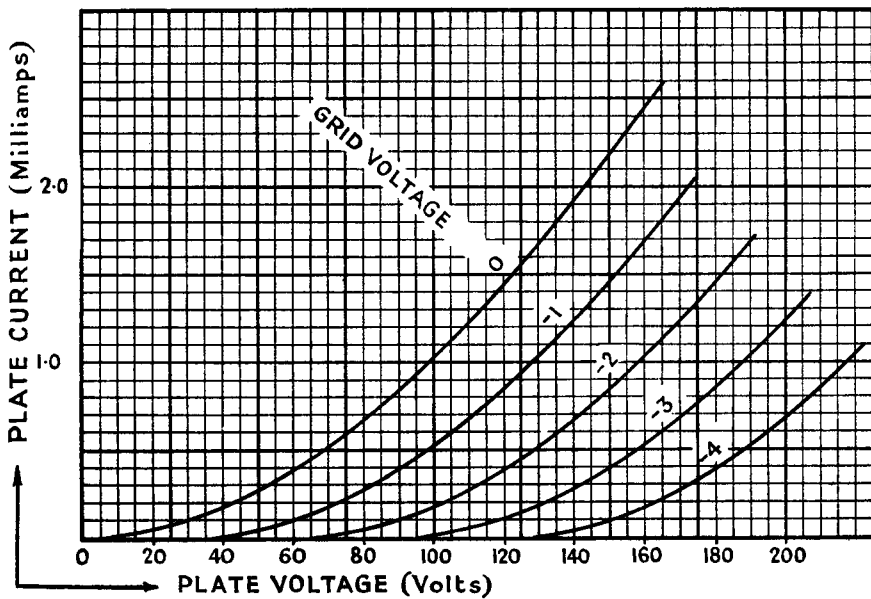
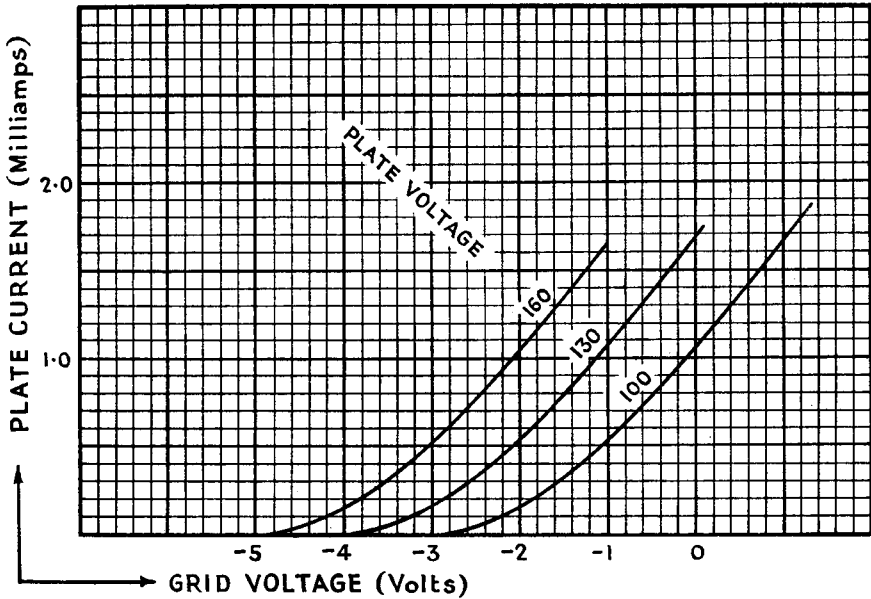
* Maximum operating conditions.

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These curves are taken with direct filament heating, grid and anode voltages being referred to negative end of filament.



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