

—Standard Valves—

4215-A VALVE

TRIODE.

For replacement purposes only.

SPECIFICATION.

Cathode.

Oxide coated filament.

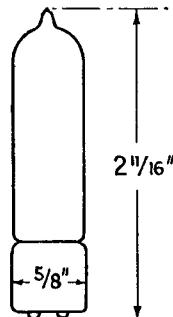
Constant current type.

Base.

Miniature 4-pin bayonet thrust.

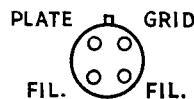
Dimensions.

Overall length	2 $\frac{11}{16}$ " (6.9 cms.)
Maximum diameter	$\frac{5}{8}$ " (1.6 cms.)
Net weight	0.02 lbs. (10 gms.)



Constants.

Filament current	0.25 amps.
Nominal filament voltage	1.1 volts
*Impedance	25,000 ohms
*Amplification factor	6
*Mutual conductance	0.24 mA. per volt
Grid-anode capacity	3.5 $\mu\mu$ F.
Anode-filament capacity	1.5 $\mu\mu$ F.
Grid-filament capacity	2.0 $\mu\mu$ F.



* at anode current of 1 mA.

LIMITING CONDITIONS FOR SAFE OPERATION.

Maximum direct anode voltage	100 volts
Maximum direct anode current	2.2 mA.

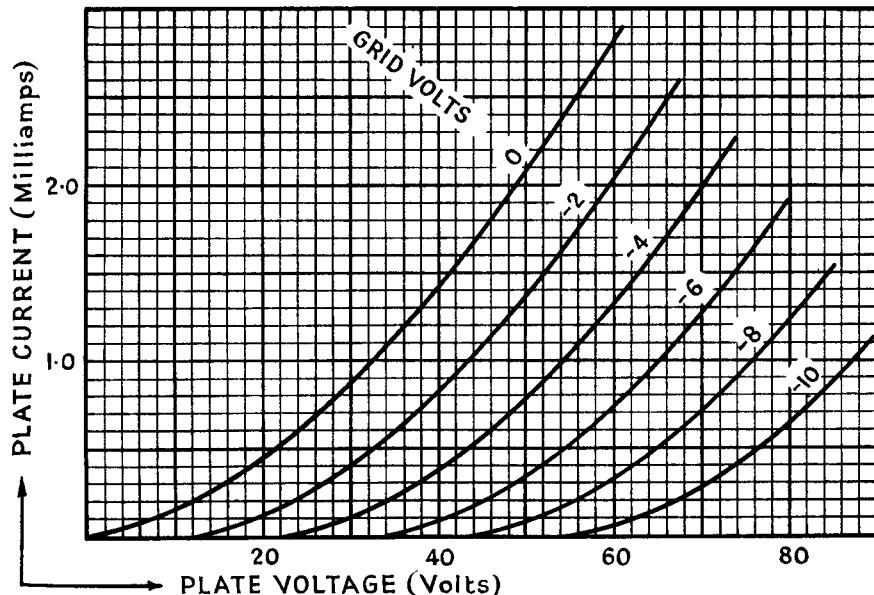
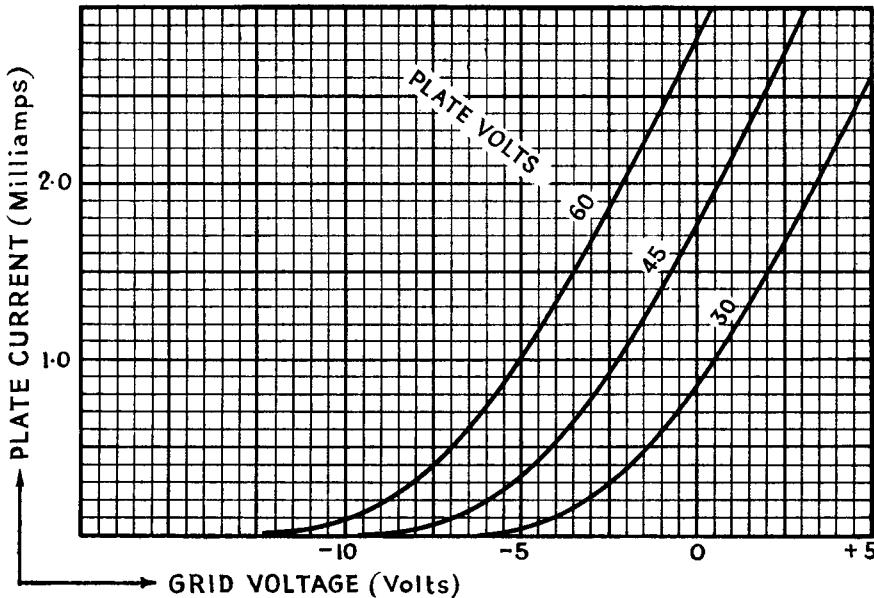
—Standard Valves—**TYPICAL OPERATING CONDITIONS.**

Anode voltage	Grid bias	Anode current	Amplification factor	Anode resistance	Load resistance	Power output	Voltage output	Second harmonic	
								ohms rp R mW. peak volts db	
45·0	—3·0	1·0	5·7	16,500	R=rp R=2rp R=5rp	2·2 1·9	14·0	29 34 39	
45·0	—1·5	1·6	5·8	14,500	R=rp R=2rp R=5rp	0·60 0·55	7·2	40 45 49	
60·0	—3·0	2·0	5·7	13,500	R=rp R=2rp R=5rp	2·9 2·6	14·5	35 40 45	
67·5	—6·0	1·4	5·6	15,500	R=rp R=2rp R=5rp	9·4 8·3	28·5	25 30 35	
67·5	—4·5	2·0	5·7	14,000	R=rp R=2rp R=5rp	6·0 5·5	22·0	31 36 40	
*67·5	—4·0	2·0	5·7	13,500	R=rp R=2rp R=5rp	5·0 4·5	19·5	34 38 43	
*90·0	—8·0	2·2	5·6	14,000	R=rp R=2rp R=5rp	18 16	40·0	26 31 37	
*100·0	—10·0	2·1	5·6	14,500	R=rp R=2rp R=5rp	26 23	47·0	24 29 36	
22·5 45·0 67·5	—4·0 —9·0 —14·0	0·01 } 0·01 } 0·01 }			Anode current detection				
22·5 *45·0	+1·0 +1·0	1·0 2·6 } <td></td> <td></td> <td data-cs="5" data-kind="parent">Grid current detection. Grid bias usually obtained by connecting grid return to positive end of filament.</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td> <td data-kind="ghost"></td>			Grid current detection. Grid bias usually obtained by connecting grid return to positive end of filament.				

* Maximum operating conditions.

—Standard Valves—

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



PRINTED IN
ENGLAND