

CV2868.

TESTS

To be performed in addition to those applicable in K1001.
 The nominal frequency of alternating voltages shall be 50 c/s.
 For all tests, $V_f = 2.5$ r.m.s. Filament heating time = 20 secs.

	Test Conditions		Test	Limits		No. Tested	Note
	V _a (V)	V _g (V)		Min.	Max.		
a	-	-	If (A)	-	6.5	100%	
b	DC and adjusted to give I _a = 0.4A	0	DC Arc Drop (V)	-	11.0	100%	1.2
c	110 r.m.s.	+ 2.0 Then increase V _g in a negative direction until I _a is just cut off.	Cut off V _g to cut off I _a (V)	Between +1.35 and -2.75		100%	1
d	110 r.m.s. Then decrease V _a until I _a is just cut off.	+ 3	V _a (r.m.s.) at which I _a is just cut off. (V)	-	4.5	100%	1
e	135 r.m.s.	Increase from zero in a negative direction until I _a is just cut off.	Negative V _g to cut off I _a . (V)	-	5.3	100%	1
f	AC. DC and adjusted to give I _a = 0.64A at V _g = 0	Adjusted (See Note 3)	Grid Current I _g (μ A)	-	5.0	100%	1.3

NOTES

- The anode - and grid - circuit returns shall be to the centre tap of the filament and V_a and V_g shall be measured with respect to this point. Resistance in the anode circuit shall suffice to ensure that I_a does not exceed 0.64A in any test. In all tests except 'f', R_g = 1000 ohms.
- Operate valve for 1 minute before taking the reading.
- With I_a at 0.64A and with a grid resistance of value R_{g1} = 1 Megohm, the grid supply voltage E_g shall be increased from zero in a negative direction until it just suffices to stop I_a, and its corresponding numerical value is E_{g1}. The grid supply voltage shall then be reduced to zero, the grid resistance reduced to zero, and the anode current again made 0.64A. Then the grid supply voltage shall again be increased in the negative direction until it just suffices to stop I_a, and its numerical value is E_{g2}. The grid current I_g shall be calculated from the equation:-

$$I_g = \frac{E_{g1} - E_{g2}}{R_{g1}}, \text{ the value of } R_{g1} \text{ being 1 Megohm.}$$

ELECTRONIC VALVE SPECIFICATIONS

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AMENDMENT No.1

Page 2 Tests, Clause (f)

In Test Conditions, Va Column amend
"D.C." to read "A.C."

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T.V.C. for A.S.W.E.

N.230078

✓ AAS
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