

## VALVE ELECTRONIC CV 1618

GENERAL POST OFFICE: E-IN-C (W )

(POVT 54)

Specification: <b>G.P.O./CV1618/Issue 2</b> Dated: <b>18.6.47</b> To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td><b>Restricted</b></td><td><b>Restricted</b></td></tr> </table>	SECURITY		<u>Specification</u>	<u>Valve</u>	<b>Restricted</b>	<b>Restricted</b>
SECURITY							
<u>Specification</u>	<u>Valve</u>						
<b>Restricted</b>	<b>Restricted</b>						

— — — — —&gt; indicates a change

<u>TYPE OF VALVE:</u> <b>Transmitting triode</b> <u>CATHODE:</u> <b>Directly heated tungsten filament</b> <u>ENVELOPE:</u> <b>Unmetallised glass</b> <u>PROTOTYPE</u> —			<u>MARKING</u> See K1001/4 Additional markings required (See Notes A, B & C) Serial No. .... Filament Volts .....
<u>RATING</u>		Note	<u>BASE</u> See drawing on page 3.
Filament voltage (V)	As Marked		<u>CONNEXIONS</u> See drawing on page 3.
Nominal filament current (A)	10.0		
Max. anode voltage (kV)	3.0		
Max. anode dissipation (W)	250.0	D	<u>DIMENSIONS</u> See drawing on page 3.
Amplification factor	7.0		
Mutual conductance (mA/V)	1.2		
Anode impedance (ohms)	6,000		<u>PACKING</u> See K1001/7.3

NOTES

- A. The Serial Numbers will be allotted by the Inspecting Officer
- B. The Marked Voltage is defined on page 2, test (a)
- C. It is not essential that the additional markings shall appear within the frame
- D. Measured with  $V_a = 2 \text{ kV}$ , and  $I_a = 125 \text{ mA}$ .

The tests shown in Table I, or alternatively, those shown in Table II, shall be performed in addition to those applicable in K1001.

Table I (for A.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(V)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	Read	200	200	-	Vf required to produce an emission current of 250 mA. To be known as "Marked Voltage" (V)	11.0	13.0	100%	1
(b)	MV	-	-	-	If (A)	9.0	11.0	100%	
(c)	MV	3000	Adjust	84	Reverse Ig ( $\mu$ A)	-	20.0	100%	2
(d)	MV	1000	Adjust	125	$\mu$	6.3	7.7	100%	
		2000							
(e)	MV	1000	Read	100	Vg (V)	-8.0	-28.0	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(V)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	Read	200	200	-	Vf required to produce an emission current of 250mA To be known as "Marked Voltage" (V)	11.0	13.0	100%	1
(b)	M.V	-	-	-	If (A)	9.0	11.0	100%	
(c)	M.V	3000	Adjust	84	Reverse Ig ( $\mu$ A)	-	20.0	100%	2
(d)	M.V	1000	Adjust	125	$\mu$	6.3	7.7	100%	
		2000							
(e)	M.V	1000	Read	100	Vg (V)	-2.0	-22.0	100%	

## NOTES

1. This test shall be performed in accordance with K1001/AV
2. The duration of test (c) shall be 15 minutes and the reverse grid current shall not be rising at the end of the test.

OUTLINE DRAWING

