

VALVE ELECTRONIC **CV 1610**

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

(POVT 10)

Specification: G.P.O./CV 1610/Issue 1 Dated: 17-6-47 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	Restricted	Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Directly heated tungsten filament <u>ENVELOPE:</u> Glass: Unmetalised <u>PROTOTYPE:</u> MT4		<u>MARKING</u> See K 1001/4 Additional markings required (See Notes A & B) Serial No. Filament Volts 12.5													
<u>RATING</u>		Note	<u>BASE</u> None <u>CONNEXIONS</u>												
Filament voltage (V) 12.5 Nominal filament current (A) 6.3 Max. anode voltage (kV) 10.0 Max. anode dissipation (W) 200 Max. frequency of operation (Mc/s) 1.5 Amplification factor 190 Mutual conductance (mA/V) 1.3		C C	The anode lead shall be brought out at the opposite end of the valve from the grid and filament leads. All leads shall be suitably insulated and bound to the lips of the valve, and the loose ends shall be not less than 6 inches in length.												
			<u>DIMENSIONS</u>												
			See K 1001/A1/D3												
			<table border="1" style="width: 100%;"> <thead> <tr> <th style="text-align: center;">Dimension</th> <th style="text-align: center;">Min.</th> <th style="text-align: center;">Max.</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">A (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">260</td> </tr> <tr> <td style="text-align: center;">B (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">120</td> </tr> <tr> <td style="text-align: center;">C (mm)</td> <td style="text-align: center;">-</td> <td style="text-align: center;">50</td> </tr> </tbody> </table>	Dimension	Min.	Max.	A (mm)	-	260	B (mm)	-	120	C (mm)	-	50
Dimension	Min.	Max.													
A (mm)	-	260													
B (mm)	-	120													
C (mm)	-	50													
			<u>PACKING</u>												
			See K 1001/7.3												
<u>NOTES</u>															
A. The Serial Numbers will be allotted by the Inspecting Officer. B. It is not essential that the additional markings shall appear within the frame. C. Measured with $V_a = 3kV$, and $I_a = 4.0$ mA.															

TESTS

The tests shown in Table I, or, alternatively, those shown in Table II, shall be performed in addition to those applicable in K 1001.

TABLE I (for A.C. filament heating.)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.		
(a)	12.5	-	-	-	If (A)	6.0	6.6	100%	
(b)	12.5	2	Adjust	100	Vg change after first 5 mins. of test. (V)	-	10.0	100%	1
(c)	12.5	0.5	0.5	-	Ie (A)	0.4	-	100%	
(d)	12.5	2	Read	40	μ	150	230	100%	
		4	Read						
(e)	12.5	4	Read	20	Vg (V)	15.0	30.0	100%	

TABLE II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.		
(a)	12.5	-	-	-	If (A)	6.0	6.6	100%	
(b)	12.5	2	Adjust	100	Vg change after first 5 mins. of test. (V)	-	10.0	100%	1
(c)	12.5	0.5	0.5	-	Ie (A)	0.4	-	100%	
(d)	12.5	2	Read	40	μ	150	230	100%	
		4	Read						
(e)	12.5	4	Read	20	Vg (V)	21.0	36.0	100%	

NOTE

1. The duration of test (b) shall be 15 minutes.