

VALVE ELECTRONIC **CV 1615**

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

(POVT 35)

Specification: G.P.O./CV 1615/Issue 2 Dated: 17 - 10 - 46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Vacuum half-wave rectifier <u>CATHODE:</u> Directly heated tungsten filament <u>ENVELOPE:</u> Glass, double-ended <u>PROTOTYPE:</u> ESU 1500			<u>MARKING</u>		
			See K 1001/4		
			Additional markings required (See notes A, B, C)		
			Serial No.....		
			Filament Volts.....		
<u>RATING</u>			<u>BASE</u>		
			None		
			<u>CONNEXIONS</u>		
Filament current	(A)	28.0	Note B The anode lead shall be brought out at one end of the valve and the filament leads at the other end. All leads shall be suitably insulated and bound to the lips of the valve, the loose ends shall not be less than 12 inches.		
Filament voltage	(V)	AS MARKED			
Max. peak inverse voltage	(kV)	36.0			
Max. D.C. output voltage	(kV)	12.0			
Max. rectified output current	(A)	1.0			
			<u>DIMENSIONS</u>		
			See K 1001/A1/D3		
			Dimension	Min.	Max.
			A (mm)	-	580
			B (mm)	-	190
			C (mm)	-	75
			<u>PACKING</u>		
			See K 1001/7.3		
<u>NOTES</u>					
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.					

TESTS

To be performed in addition to those applicable in K 1001.

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	If(A)	Va(DC)		Min.	Max.		
(a)	28.0	0	Vf (To be known as "Marked Voltage") (V)	15.0	17.0	100%	
(b)	28.0	Read	Anode voltage required to produce anode current of 2 amps (V)	-	750 DC	100%	
(c)	28.0	12.5 kV	D.C. output per valve (A)	0.45	0.55	100%	1

NOTE

- This test shall be conducted in a bi-phase half-wave circuit, and its duration shall be 30 minutes.

No blue-glow, sparking, or flash-over shall occur.