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	SECURITY	
	Specification	Valve
	Restricted	Restricted

——→ indicates a change

TYPE OF VALVE: Vacuum half-wave rectifier

CATHODE: Directly heated tungsten filament

ENVELOPE: Glass, double-ended

PROTOTYPE ESU 1500

MARKING

See K 1001/4

Additional markings required (See notes A, B, C)

Serial No.....

Filament Volts.....

RATING

			Note
Filament current	(A)	28.0	B
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	

BASE

None

CONNEXIONS

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.

DIMENSIONS

See K 1001/A1/D3

Dimension	Min.	Max.
A (mm)	-	580
B (mm)	-	190
C (mm)	-	75

PACKING

See K 1001/7.3

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.

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

1. 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.