

VALVE ELECTRONIC **CV 1625**

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

(POVT 146)

Specification: <b>G.P.O./CV1625/Issue 1</b> Dated: <b>21.2.47</b> To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> <b>Restricted</b>	<u>Valve</u> <b>Restricted</b>

—————> indicates a change

<u>TYPE OF VALVE:</u> <b>Mercury Vapour Rectifier</b> <u>CATHODE:</u> <b>Directly heated</b> <u>ENVELOPE:</u> <b>Unmetallised glass</b> <u>PROTOTYPE</u> <b>RG3 - 250</b>		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No. .... Filament Volts 2.5										
<u>RATING</u>		Note	<u>BASE</u> Edison Screw See K1001/AIV/D13.2									
Filament voltage	(V)	2.5	<u>CONNEXIONS</u> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%; text-align: center;">Contact</td> <td style="width: 50%; text-align: center;">Electrode</td> </tr> <tr> <td style="text-align: center;">Thread</td> <td style="text-align: center;">Filament</td> </tr> <tr> <td style="text-align: center;">Button</td> <td style="text-align: center;">Filament</td> </tr> <tr> <td style="text-align: center;">Top Cap</td> <td style="text-align: center;">Anode</td> </tr> </table>		Contact	Electrode	Thread	Filament	Button	Filament	Top Cap	Anode
Contact	Electrode											
Thread	Filament											
Button	Filament											
Top Cap	Anode											
Nominal filament current	(A)	5.0										
Max. peak inverse voltage	(kV)	10.0										
Max. mean anode current	(A)	0.25										
Max. peak anode current	(A)	1.0										
Nominal voltage drop	(V)	16.0	<u>TOP CAP</u> See K1001/A1/D5.4									
			<u>DIMENSIONS</u> See K1001/A1/D1									
			Dimension	Min.	Max.							
			A (mm)	-	170							
			B (mm)	-	60							

NOTES

- 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.

TESTS

To be performed in addition to those applicable in K1001

	TEST CONDITIONS		TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(D.C)		Min.	Max.		
(a)	2.5	-	If (A)	4.5	5.5	100%	
(b)	2.5	Read	Anode voltage required to produce anode current of 1 amp. (V)	-	18.0	100%	
(c)	2.5	3,200	D.C. output per valve (A)	0.25	-	100%	1

TEST

- This test shall be conducted on a bi-phase half-wave circuit, and its duration shall be 30 minutes.  
No sparking or flash-over shall occur.