

GENERAL POST OFFICE: E-11-0 (W)

(POVT 197)

Specification: G.P.O./CV1629/Issue 1	<u>SECURITY</u>	
Date: 19.3.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

... indicates a change

<u>TYPE OF VALVE:</u> Mercury vapour rectifier			<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No.. Filament Volts 4.0		
<u>CATHODE:</u> Directly heated					
<u>ENVELOPE:</u> Unmetallised glass					
<u>RECTIFIER:</u> RG3 - 1250; GU21					
<u>RATING</u>			<u>BASE</u> Goliath Edison Screw See K1001/AIV/D13.1		
			<u>CONNEXION</u>		
			Contact	Electrode	
			Thread	Filament	
			Button	Filament	
			T.C.	Anode	
			<u>TOP CAP</u> RG3 - 1250 :- See K1001/A1/D5.4 GU21 :- See K1001/A1/D5.7		
			<u>DIMENSIONS</u> See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	250
			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)	4.0	-	If (A)	6.0	8.0	100%	
(b)	4.0	Read	Anode voltage required to produce anode current of 1.25A (V)	-	18.0	100%	
(c)	4.0	3.5 kV	D.C. output per valve (A)	1.0	-	100%	1
(d)	4.0	-11.0 kV	Inverse voltage	Reject for arcing back		100%	2

NOTES

1. This test shall be conducted in a bi-phase half-wave circuit, and its duration shall be fifteen minutes.
No sparking or flash-over shall occur
2. The duration of test (d) shall be one minute.

Supervisor